VOL. IV DECEMBER, 1909 No. 3

Middlebury College

Bulletin

The Catalogue

1909 1910

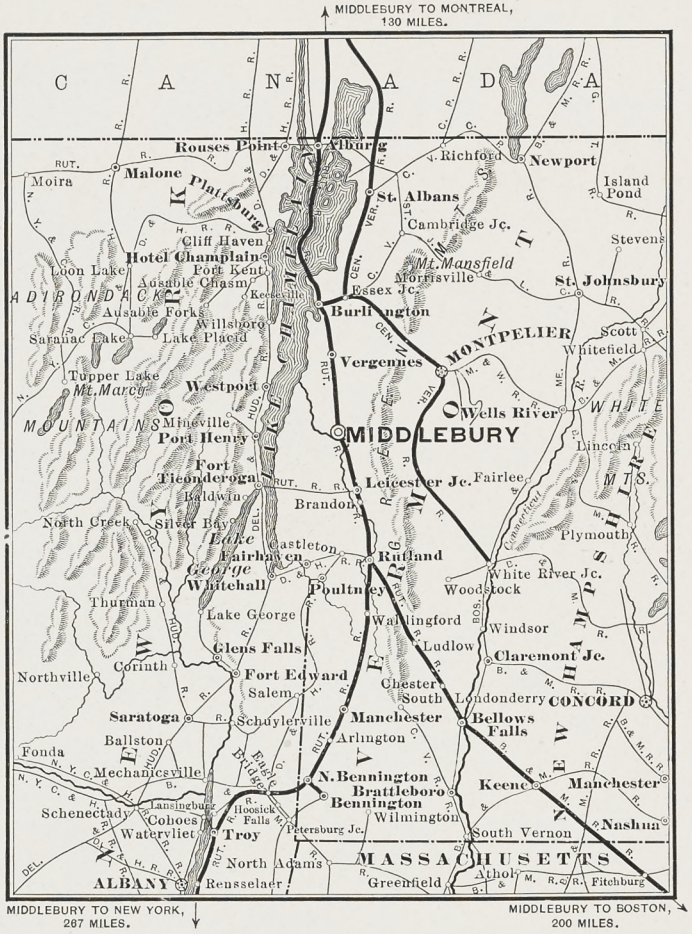
MIDDLEBURY, VERMONT

PUBLISHED BY THE COLLEGE

(September, October, December, February, May, and July)

Entered as second class matter at the Post Office, Middlebury, Vermont, under act of Congress of July 16, 1894

MIDDLEBURY COLLEGE 1909-1910



THE CENTRAL COLLEGE OF VERMONT

Equidistant from the Northern and Southern Boundaries.

Half way between Vermont's largest cities.

On New York Central Lines (Rutland Railroad).

Four through trains daily each way between New York and Boston and Montreal.

Fare (mileage) from New York, $5.34; from Boston, $4.00.

Catalogue of

Middlebury College

MIDDLEBURY, VERMONT

One Hundred and Tenth Year

1909-1910

PUBLISHED FOR THE COLLEGE

1909

THE FOUNDING OF MIDDLEBURY

"The township of Middlebury began to be settled about the year 1788 in scattered plantations. About 1794 the inhabitants began to build a village on both sides of the river, at the falls in the northwest part of the township. The number of houses, when we were on the spot, was perhaps thirty. Several of them were pretty buildings.

"The falls, at this place, descend twenty-one feet perpendicularly, and are formed by a ledge of marble. The rapids are continued four miles down the stream. A bridge, built just above the falls, unites the parts of this village.

"Several mills had been erected at this spot in 1798. A brewery was established; several stores had been built; a considerable number of mechanics, and several gentlemen in liberal professions had chosen this spot as their residence. An academy also was nearly completed which was intended to be the germ of a future college. Upon the whole, the seeds of future respectability were already sown here.

"The evening of the 30th [September, 1798] I spent in company with a number of gentlemen in a consultation concerning this projected seminary, at the house of S. Miller, Esq. They informed me that a college was already incorporated in the State, the intended seat of which was to be Burlington; that it had been incorporated some years and was liberally endowed, but that for various reasons, which were specified, nothing material had been done towards carrying it into operation; that, although some inde-

cisive efforts had been made by the Trustees soon after their appointment, all its concerns had, for a considerable time, been at a stand; that there was, now, less reason to expect any efficacious efforts from these gentlemen than there had been heretofore, as they themselves appeared to have relinquished both exertion and hope. The gentlemen then explained to me their own views of the importance of such an institution to their State, the propriety of making this town the seat of it, their own intentions and the wishes of many respectable people in the State who coincided with them in the opinions which they had expressed to me. When they had unfolded their views, I frankly communicated to them my own, and have since had no reason to complain that they were disregarded. I will only add that the local situation of Middlebury, the sober and religious character of the inhabitants, their manners, and various other circumstances, render it a very desirable seat for such a seminary.

* * * * * *

"The academy, which I have mentioned above, began to prosper from the time when it was opened, and was, in the year 1800, raised by an Act of Incorporation into a College. From that time to the present (1811) it has continued to prosper, although all its funds have been derived from private donations, and chiefly, if not wholly, from the inhabitants of this town. The number of students is now one hundred and ten, probably as virtuous a collection of youths as can be found in any seminary in the world. The Faculty consists of a President, a Professor of Law, a Professor of Mathematics and

Natural Philosophy, who teaches Chemistry also, a Professor of Languages, and two Tutors. The inhabitants of Middlebury have lately subscribed eight thousand dollars for the purpose of erecting another collegiate building. When it is remembered that, twenty-five years ago, this spot was a wilderness, it must be admitted that these efforts have done the authors of them the highest honour.

"At the same time, religion has prevailed in this town more than in any other in the State, and controls very obviously the manners and the character of the inhabitants in a degree uncommon and delightful. Its influence is very happily seen in the college, where the best order prevails under a discipline, exact indeed, but mild and parental. Upon the whole, Middlebury is one of the most prosperous and most virtuous towns in New England.

"This township includes but one Congregation, and, in the year 1790, contained 395 inhabitants; in 1800, 1,263, and in 1810, 2,188."

From "Travels in New England and New York," by Timothy Dwight, S.T.D., LL.D., late President of Yale College, New Haven, Conn.; 1821.

THE CHARTER OF MIDDLEBURY COLLEGE

Section 1 *It is hereby enacted* by the General Assembly of the State of Vermont, That there be, and hereby is granted, instituted and established a College in the Town of Middlebury, in the County of Addison; and that Messrs. Jeremiah Atwater, Nathaniel Chipman, Heman Ball, Elijah Payne, Gamaliel Painter, Israel Smith, Stephen R. Bradley, Seth Storrs, Stephen Jacob, Daniel Chipman, Lot Hall, Aaron Leeland, Gershom C. Lyman, Samuel Miller, Jedediah P. Buckingham and Darius Matthews shall be an incorporate society, or body corporate and politic, and shall hereafter be called and known by the name of

*The President and Fellows of Middlebury College:**

and that by the same name, they, and their successors, shall and may have perpetual succession; and shall and may be persons capable in law, to be impleaded, defend and be defended, answer and be answered unto; and also to have, take, possess, acquire, purchase or otherwise receive lands, tenaments, hereditaments, goods, chattels, or estate; to grant, demise, lease, use, manage, or improve for the good and benefit of the said College according to the tenor of the donations, and their discretion.

Section 2 *And it is hereby further enacted,* That the said President and Fellows, and their successors, shall and may hereafter have

*This is the corporate name of Middlebury College. Bequests should be made in this name.

a common seal, to serve and use for all causes, matters and affairs of theirs, and their successors, and the same seal to alter, break and make anew, as they shall think fit.

Section 3 *And it is hereby further enacted,* That the said Jeremiah Atwater shall be, and he is hereby established the present President; and the said Nathaniel Chipman, Heman Ball, Elijah Payne, Gamaliel Painter, Israel Smith, Stephen R. Bradley, Seth Storrs, Stephen Jacob, Daniel Chipman, Lot Hall, Aaron Leeland, Gershom C. Lyman, Samuel Miller, Jedediah P. Buckingham and Darius Matthews shall be, and they are hereby established the present Fellows of the said College; and that they and their successors shall continue in their respective places, during life, or until they, or either of them, shall resign, be removed, or displaced, as in this act is hereafter expressed.

Section 4 *And it is hereby further enacted,* That there shall be a general meeting of the President and the Fellows of the said College, in the said College-House, on the first Tuesday of November, annually, or, at any other time and place, which they shall see cause to appoint, to consult, advise and act, in and about the affairs and business of the said College; and that on any special emergency, the President and two of the Fellows, or any four of the Fellows, may appoint a meeting at the said College. Provided they give notice thereof to the rest, by letters sent and left with them, or at the places of their respective abodes, ten days before such meeting, and that the President and six Fellows, or, in the case of death, absence, or incapacity of the

President, seven Fellows, convened as aforesaid, (in which case the oldest Fellow shall preside) shall be deemed a meeting of the President and Fellows of said College; and in all the said meetings a major vote of the members present shall be deemed the act of the whole, and when an equivote happens, the President shall have a casting vote. That the President and Fellows of the said College and their successors, in any of their meetings assembled as aforesaid, may, from time to time as occasion shall require, elect and appoint a President or Fellows, and also the same remove, from time to time, for any misdemeanor, unfaithfulness, default or incapacity, six of the said corporation, at least, concurring therein; and shall have power to appoint a scribe, or register, a treasurer, tutors, professors, steward and butler, and all such other officers and servants as are usually appointed in colleges and universities, as they shall find necessary and think fit to appoint; for promoting good literature, and well ordering and managing the affairs of said College; and them, or any of them, at their discretion, to remove. And to prescribe and administer such forms of oaths, not being contrary to the constitution and laws of this State, or of the United States, as they shall think proper to be administered, to all those officers and instructors of the said College, or to such and so many of them as they shall think proper, for the faithful execution of their respective places, offices, and trusts.

Section 5

And it is hereby further enacted, That the President and Fellows shall have the government, care and management, of the said College, and all the matters and affairs thereto

belonging; and shall have power from time to time, as occasion shall require, to make, ordain, and establish all such wholesome and reasonable laws, rules and ordinances, not repugnant to the constitution and laws of this State, or the United States, as they shall think fit and proper, for the instruction and education of the students, and ordering, governing, ruling and managing the said College, and all matters, affairs, and things thereto belonging; and the same to repeal and alter, as they shall think fit, which shall be laid before the Legislature of this State, as often as required, and may also be repealed or disallowed by the said Legislature when they shall think proper.

Section 6 *And it is hereby further enacted,* That the President of the said College, with the consent of the Fellows, shall have power to give and confer all such honors, degrees, or licenses, as are usually given in colleges, or universities, upon such as they think worthy thereof.

Section 7 *And it is hereby further enacted,* That all the lands and ratable estate that does or shall belong to the said College, not exceeding the yearly value of two thousand dollars, lying in this State; and the persons, families, and estates of the presidents and professors, lying and being in the town of Middlebury, of the value of one thousand dollars, to each of said officers, and the persons of the tutors, students, and such and so many of the servants of said College, as give their constant attendance on the business of it, shall be freed and exempted from all rates, taxes, military

service, working at highways, or other such like duties and services.

Section 8 *And it is hereby further enacted,* That the Governor of this State be, and he is hereby empowered and requested to issue to the said President and Fellows, named in this Act, and to their successors, a charter of incorporation, made in due form of law, agreeably to the same.

Section 9 *Provided nevertheless,* and it is hereby further enacted, That nothing in this Act, or any part thereof, shall be construed to extend to, or give to said corporation, by virtue thereof, any right to hold, possess or enjoy any property or estate, which has heretofore been granted or intended to have been granted, or given in charge and reserve, for the use of a college, or colleges, in this State; or granted, or intended to have been granted, and apportioned by this State to the University in Vermont.

Passed November 1st, 1800.

A true copy, attest,

ROSWELL HOPKINS, *Secretary.*

THE PRESIDENT AND FELLOWS OF MIDDLEBURY COLLEGE

Rev. JOHN MARTIN THOMAS, D.D., President	*Middlebury*
Hon. JOHN W. STEWART, LL.D.	*Middlebury*
Hon. JOSEPH BATTELL, A.M.	*Middlebury*
Prof. BRAINERD KELLOGG, LL.D.	*Englewood, N. J.*
EZRA BRAINERD, D.D., LL.D.	*Middlebury*
Hon. DAVID K. SIMONDS, A.B.	*Manchester*
Rev. WILLIAM S. SMART, D.D.	*Brandon*
ERASTUS H. PHELPS, A.M.	*Fair Haven*
Hon. JOHN A. MEAD, A.M., M.D.	*Rutland*
HENRY H. VAIL, LL.D.	*New York, N. Y.*
Hon. E. B. SHERMAN, LL.D.	*Chicago, Ill.*
GEORGE M. WRIGHT, LL.D.	*New York, N. Y*
Rev. JAMES L. BARTON, D.D.	*Boston, Mass.*
M. ALLEN STARR, M.D., Ph.D., LL.D.	*New York, N. Y.*
JAMES M. GIFFORD, LL.D.	*New York, N. Y.*
Hon. JOHN G. McCULLOUGH, LL.D.	*Bennington*
Prof. JULIAN W. ABERNETHY, Ph.D.	*Brooklyn, N. Y.*
JOHN A. FLETCHER, A.B.	*Middlebury*
Hon. FLETCHER D. PROCTOR, LL.D.	*Proctor*
Rev. RUFUS C. FLAGG, D.D.	*Newport*
Hon. A. BARTON HEPBURN, LL.D.	*New York, N. Y.*
Hon. JOHN E. WEEKS	*Middlebury*

JOHN A. FLETCHER, *Secretary and Treasurer.*

PRUDENTIAL COMMITTEE

PRESIDENT JOHN M. THOMAS, *ex-officio*

JOHN W. STEWART — JOHN A. FLETCHER
JOHN A. MEAD — FLETCHER D. PROCTOR
EZRA BRAINERD — JOHN E. WEEKS

FINANCE COMMITTEE

GEORGE M. WRIGHT, *Chairman*

JOHN W. STEWART — JAMES M. GIFFORD
JOHN A. MEAD

COMMITTEE ON INSTRUCTION

BRAINERD KELLOGG, *Chairman*

JULIAN W. ABERNETHY — RUFUS C. FLAGG
HENRY H. VAIL — FLETCHER D. PROCTOR

THE FACULTY AND OFFICERS

JOHN MARTIN THOMAS, D.D.,
President

EZRA BRAINERD, D.D., LL.D.,
President-emeritus

HENRY MARTYN SEELY, A.M., M.D.,
Professor-emeritus of Natural History

CHARLES BAKER WRIGHT, A.M., L.H.D.,
Professor of Rhetoric and English Literature

WALTER EUGENE HOWARD, LL.D.,
Dean and Jermain Professor of Political Science and Professor of History

WILLIAM WESLEY McGILTON, A.M.,
Professor of Chemistry

MYRON REED SANFORD, A.M.,
Professor of the Latin Language and Literature

ERNEST CALVIN BRYANT, S.B.,
Baldwin Professor of Physics and Mathematics

EDWARD ANGUS BURT, PH.D.,
Burr Professor of Natural History

WILLIAM SARGENT BURRAGE, PH.D.,
Professor of the Greek Language and Literature

EDWARD DAY COLLINS, PH.D.
Professor of Pedagogy

ARCHIBALD DARIUS WETHERELL, A.M.,
Assistant Professor of History

DUANE LEROY ROBINSON, A.M.,
Assistant Professor of French

G. WATTS CUNNINGHAM, PH.D.,
Assistant Professor of Philosophy

RAYMOND McFARLAND, A.M.,
Assistant Professor of Secondary Education

FRANK WILLIAM CADY, B. LITT. (OXON.), A.M.,
Assistant Professor of English

THOMAS CLACHER BROWN, PH.D.,
Assistant Professor of Geology

EVERETT SKILLINGS, A.M.,
Assistant Professor of German

PHELPS NASH SWETT, S.B.,
Assistant Professor of Mathematics

RAYMOND HENRY WHITE, A.M.,
Instructor in Latin

RHODA MABEL WHITE, PH.D.,
Dean of Women and Assistant Professor of Sociology

ETTA MAY CLARK,
Librarian

FRANK W. CADY,
Registrar

JOHN A. FLETCHER,
Inspector of Buildings

IDA S. BLAKESLEE,
Secretary to the President

WILLIAM H. FARRELL,
HENRY HOPKINS,
Janitors

FACULTY COMMITTEES

Administration:

WRIGHT, HOWARD, McGILTON, ROBINSON, Miss WHITE

Athletics:

McGILTON, BRYANT, SWETT

Curriculum:

COLLINS, WRIGHT, BROWN

Student Affairs:

BURRAGE, Miss WHITE, SKILLINGS

Graduate Work:

SANFORD, BURT, COLLINS

Musical Organizations:

WHITE, CUNNINGHAM, COLLINS

Admission:

CADY, HOWARD, ROBINSON

Library:

McFARLAND, BURRAGE, WETHERELL

Reading Rooms:

WETHERELL, Miss WHITE, SWETT

INTRODUCTION

Recent Progress

Substantial progress has marked the past year at Middlebury; the following announcement will show a notable increase in the Faculty and in the courses offered to students, and a larger roll of students than ever before in the history of the College.

In addition to the Scientific Course initiated a year ago, a new Pedagogical Course has been established, enabling students preparing to teach to direct their studies during the entire four years of college toward effective training for the teaching profession.

In the departments fundamental to engineering, additional facilities have been provided, both in the introduction of new courses and the lengthening of old ones, and by the purchase of additional apparatus. A number of courses of graduate grade are included in each department, and provision has been made for a fifth college year, either immediately upon graduation or subsequently, leading to the degree of Master of Arts or Master of Science. Special attention is invited to the courses in Forestry, and also in Economic Geology, the latter with special reference to Vermont's large quarrying interests. The Pearsons Fund for the erection of a dormitory for women has been secured, and the building will be commenced in the spring of 1910. It will be located on the new campus donated by Hon. Joseph Battell, which more than doubles the land held for college purposes. The

Summer Session projected a year ago proved a decided success, and an attractive program of studies is under preparation for the coming summer. Other indications of substantial improvements will be found on the following pages.

History of the College

Middlebury College was chartered in 1800, and its first class was graduated in 1802, at which time the first academic degrees conferred in Vermont were bestowed. Even before the granting of a charter collegiate work had been prosecuted in Middlebury, under the leadership of Rev. Jeremiah Atwater, Yale, 1793, the Principal of the Addison County Grammar School, who became the President of the College, having been recommended for the position by Dr. Dwight, then President of Yale University, whose comments on his repeated visits to Middlebury may be found in the first pages of this Catalogue. A library of 494 volumes had already been carefully selected and presented to the College. For ten years all the work of the institution was conducted in a large frame building which it shared with the Addison County Grammar School, but in 1810 Col. Seth Storrs of Middlebury gave to the corporation thirty acres of land, "beautifully situated in an elevated part of the village," which now forms part of the College Campus. On this site the first building of the College was erected in 1815. It was called at first "West College," but in 1846 was named Painter Hall, in honor of Hon. Gamaliel Painter, one of the most generous patrons of the College and most useful citizens of the town, who had bequeathed all his property to the institution. The commodious and beautiful Chapel was erected in 1836, and is still the

most commanding object on the Campus and in the landscape of the village, and a useful and convenient administration and recitation building. Starr Hall, a large dormitory, was erected by the beneficence of Charles and Egbert Starr in 1861, and rebuilt in 1864, after a disastrous fire, by the same donors. These three graceful stone buildings, forming a College row typical of New England, give dignity and quiet beauty to one of the most beautiful College parks to be found in America.

The builders of Middlebury were men of deep religious faith and earnest moral purpose, and clergymen from the surrounding towns long exercised controlling influence in the corporation. The College has had a long and heroic struggle with poverty, but her doors have never been closed and she has furnished uninterruptedly to the youth of northern New England opportunities of thorough literary education and a vantage point of outlook upon the larger life of the world.

Middlebury's Record

During her first century Middlebury sent out 1,686 graduates; 543 of these were clergymen, including 71 missionaries. An exceptionally large proportion became teachers, of whom 106 were Professors in Colleges or Theological Seminaries; 32 College Presidents were sent forth by Middlebury from 1800 to 1900. She graduated in that time 400 lawyers, including over 50 judges of courts. Fifteen of her Alumni have been members of Congress, and nine Governors of States or Territories. It is Middlebury's boast that in proportion to her size and the means at her command no American College has made a nobler record.

The Village of Middlebury

A residential town of 2,000 people, on the Rutland Railroad, New York Central Lines, with through trains between New York and Boston and Montreal, Middlebury is an ideal location for a rural New England College. The foot-hills of the Green Mountains are a few miles distant. From the heights of the College Campus one sees many of the grander peaks of the Adirondacks. The Otter river flows through the town, and in its valley are many of the best farms of Vermont. Elms and maples line the village streets, and the houses betoken modest thrift and quiet taste. Water of unexcelled purity and quantity is brought from mountain springs, eight miles distant. Intoxicating liquors are not sold, and there are no trolley lines to neighboring cities. The College is the pride of the village, and many of the homes of the people are open to the students.

Middlebury's Specialty

The specialty of Middlebury is not a department of study but a type of student. The location of the College in a frugal agricultural region favors economy. For over a century she has sought out particularly the youth from the quiet homes of northern New England and surrounded them with encouragement to modest living while engaged in the pursuit of knowledge. By resolute endeavor College expenses have been kept low. Students who have to work their own way are especially encouraged, in the belief that such students furnish the most healthful tone to an institution of learning. Those who can afford more than Middlebury exacts are invited to consider the advantages to character which come from such an atmosphere in the formative period of life.

Individual Training

The Middlebury idea is that, since no two men are alike, each student needs the particular care and oversight of his instructors during his entire College course. With a small student body and an ample number of Professors such oversight is possible, and the unusual success of Middlebury's graduates is believed to be due to its maintenance.

Further Information

The following pages are designed to set forth clearly the courses of study offered at Middlebury, the terms of admission and methods of securing entrance, and information as to expenses, rooms, boarding places, and other matters of importance to prospective students. Further information on any topic will be supplied cheerfully on application to the President, to whom all correspondence should be addressed.

COURSES OF INSTRUCTION

The courses in the several departments are arranged in three groups, or courses of study: the Classical Course and the Pedagogical Course, both leading to the degree of Bachelor of Arts, and both open to men and women; and the Scientific Course, leading to the degree of Bachelor of Science, and open to men only. These courses are designed to be equal in difficulty and thoroughness.

The Classical Course is recommended to students preparing for the ministry, the law, or medicine; also to those intending to become teachers, librarians, or journalists, and to those who wish to pursue advanced studies in philosophy, literature, or science. It embraces a larger proportion of subjects in language, literature, and philosophy, and is the better course for general culture. Four years of preparatory Latin are required, and at least one year in College. This course includes that formerly known as the Latin-Scientific. Greek is optional, but is earnestly recommended to those seeking the broadest culture.

The Pedagogical Course is designed for those who intend to prepare themselves for teaching, either as teachers of high school subjects in secondary schools or as superintendents of education. As fundamental to the study of education, History and Educational Psychology are required in Freshman year; the History of Education is pursued throughout the Sophomore year; the Principles and Methods of Secondary Education is required in Junior year,

and in the final year actual practice in teaching or in supervision is provided. The design of the course is to apply normal methods, which have been so successful in the reformation of elementary education, to the problems of the secondary school.

Before the degree of Bachelor of Arts is conferred, the candidate must have received credit for at least two years of French or two years of German, either for admission or in College. One year of College History is also required before graduation.

The Scientific Course is designed to meet the needs of students who intend to follow some branch of engineering, or who wish to devote special attention to mathematics or some department of natural or physical science. There are men of practical bent of mind who can receive better mental development through a larger proportion of mathematical and scientific studies than is afforded in the Classical Course. At the same time they need thorough discipline in English and Modern Languages, in History and Political Science, and in Psychology. This course is adapted to such discipline, while it also sets the student well on his way toward further progress in technical subjects. Graduates from this course will be admitted to the Junior year of the best technical Colleges without examination. Such an arrangement has been concluded with the Massachusetts Institute of Technology. By this means they will receive the general discipline and culture of College in but little more time and with slightly more expense than if they proceeded directly from the academy to the school of engineering.

Latin may be presented for admission to this course, but is not required. Before the degree of Bachelor of Science is conferred, the candidate must

have received credit for at least three years of German and two years of French, either for admission or in College. One year each of Physics, Chemistry, and Biology is also required before graduation.

In each course and in each year some studies are required and some elective. All students are required to have at least fifteen hours of recitation a week. Students securing admission credits in Solid Geometry or Advanced Algebra will ordinarily be required to elect other studies in their place, either advanced subjects in the Department of Mathematics or studies in some other Department of Instruction. In such cases, Freshmen are allowed to take Sophomore Mathematics.

A student may elect any study offered to a class below his own, and not already taken by him, if such choice is approved by the President and the instructor in that department. A student may elect an extra study, subject to the following conditions:

1. No student may take extra hours who has still conditions in any subject or whose grade for the preceding semester has been lower than 80 per cent. in more than one subject. Election may be from classes not higher than the year next above.

2. Extra courses shall count towards a degree in the same manner as regular courses, a degree being earned when 120 credits have been attained. A credit is understood as one hour a week for one semester, and 120 credits are secured regularly by 15 hours a week each semester for four years.

3. When a student has more than 15 hours in any semester, his rank for the semester shall be determined by the 15 hours in which he receives the high-

est marks, except that marks on all required subjects shall be included.

4. When a student has taken more than 120 hours for the course, his rank for the course shall be determined by the 120 hours in which he has received the highest marks, except that marks on all required subjects shall be included.

A student admitted without conditions may make request from the Registrar, at the time of registration, for an examination for College credit in any subject of the Freshman year. If such examination is passed with a grade above 70 per cent., credit will be allowed for the course toward any degree, as though the subject had been taken regularly in College. A student passing off any subject or subjects in this manner will be required to make up 15 hours of recitation a week from other studies offered to his class.

Any course may be taken in three years, and the Bachelor's Degree may be received at the end of the third year, if the candidate has attained 120 credits and has completed all required subjects.

OUTLINE OF STUDIES

FRESHMAN YEAR

FIRST SEMESTER

Classical	Pedagogical	Scientific
Required	*Required*	*Required*
English 1	English 1	English 1
Latin 1	Latin 1	Mathematics 1
Mathematics 1	History 1	Physics 1
Elective	*Elective*	*Elective*
(any two)	(any two)	(any two)
Greek	Greek	Greek
German	German	German
French	French	French
History 1	Mathematics 1	History 1
	Physics 1	

SECOND SEMESTER

Classical	Pedagogical	Scientific
Required	*Required*	*Required*
English 2	English 2	English 2
Latin 2	Latin 2	Mathematics 2
Mathematics 2	Pedagogy 1	Physics 2
Elective	*Elective*	*Elective*
(any two)	(any two)	(any two)
Greek	Greek	Greek
German	German	German
French	French	French
History 2	Mathematics 2	History 2
	History 2	
	Physics 2	

SOPHOMORE YEAR

FIRST SEMESTER

Classical	Pedagogical	Scientific
Required	*Required*	*Required*
English 3	English 3	English 3

Elective
(any three, except that either Physics 1, Botany 1, or Zoölogy 1 must be taken)
Greek
Latin 3
German
French
History 1, 3, 5
Mathematics 3
Botany 1
Zoölogy 1
Physics 1
Pedagogy 2
Philosophy 4

Pedagogy 2
Zoölogy 1
Elective
(any two)
Greek
Latin 3
German
French
History 3, 5
Mathematics 3
Physics 3
Botany 1
Philosophy 4

Mathematics 3
Elective
(any three)
Greek
German
French
History 1, 3, 5
Physics 3
Chemistry 1*
Botany 1**
Pedagogy 2
Philosophy 4

SECOND SEMESTER

CLASSICAL

Required
Philosophy 1

Elective
(any three, except that Physics 2 or Botany 2 must be taken)
Greek
Latin 4
English 4
German
French
History 2, 4, 6
Mathematics 4, 5
Physics 2
Botany 2
Pedagogy 1, 3
Philosophy 5

PEDAGOGICAL

Required
Philosophy 1

Pedagogy 3
Botany 2
Elective
Greek
Latin 4
English 4
German
French
History 4
Mathematics 4, 5
Philosophy 5
Physics 4

SCIENTIFIC

Required
Philosophy 1

Mathematics 4
Elective
(any three)
Greek
English 4
German
French
History 2, 4, 6
Mathematics 5
Physics 4
Chemistry 2*
Zoölogy 1**
Botany 2
Pedagogy 1, 3
Philosophy 5

* Must be taken in Sophomore, Junior, or Senior year.

** Must be taken in Sophomore, Junior, or Senior year by B. S. students; recommended as a Sophomore course.

JUNIOR YEAR

FIRST SEMESTER

CLASSICAL AND SCIENTIFIC

Required
Philosophy 2

Elective
(any four)
Greek
Latin 5 or 7, 10 or 12
English 5, 7 or 9, 11
German
French
Philosophy 4, 6, 11
Pedagogy 4
Political Science 1, 6, 12
History 3, 5, 7
Mathematics 5, 7, 8, 11
Physics 3
Botany 3 or 5
Zoölogy 2
Geology 1
Chemistry 1, 3

PEDAGOGICAL

Required
Pedagogy 4
Geology 1

Elective
(any three)
Greek
Latin 5 or 7, 10 or 12
English 5, 7 or 9, 11
German
French
Philosophy 2, 4, 6, 11
Political Science 1, 6, 12
History 3, 5, 7
Mathematics 5, 7, 8, 11
Botany 3 or 5
Zoölogy 2
Chemistry 1
Physics 3

SECOND SEMESTER

CLASSICAL AND SCIENTIFIC

Required
Philosophy 3

Elective
(any four)
Greek
Latin 6 or 8, 11 or 13
English 6, 8 or 10
German
French
Philosophy 5, 7
Political Science 7, 9 or 10, 13
History 4, 6
Pedagogy 5

PEDAGOGICAL

Required
Pedagogy 5
Geology 2

Elective
(any three)
Greek
Latin 6 or 8, 11 or 13
English 6, 8 or 10
German
French
Philosophy 3, 5, 7

Mathematics 6, 9
Physics 4
Botany 4 or 6, 7
Zoölogy 3
Geology 2, 4
Chemistry 2, 4

Mathematics 6, 9
Physics 4
Botany 4 or 6, 7
Zoölogy 3
Chemistry 2
Geology 4
History 4, 6
Political Science 7, 9 or 10, 13

SENIOR YEAR

FIRST SEMESTER

CLASSICAL AND SCIENTIFIC

Required
Political Science 2
Elective
(any four)
Greek
Latin 5 or 7, 10 or 12
English 5, 7 or 9, 11
German
French
Philosophy 4, 6, 11
Pedagogy 6
History 5, 7, 9
Political Science, 4, 8, 12, 14
Mathematics 5, 7, 8, 11
Botany 3 or 5, 7
Zoölogy 2
Geology 1, 3
Chemistry 3, 5
Physics 3

PEDAGOGICAL

Required
Pedagogy 8 *
Political Science 2
Elective
(any four)
Greek
Latin 5 or 7, 10 or 12
English 5, 7 or 9, 11
German
French
Philosophy 4, 6, 11
Pedagogy 6
History 5, 7, 9
Political Science 4, 8, 12, 14
Mathematics 5, 7, 8, 11
Botany 3 or 5, 7
Zoölogy 2
Geology 3
Chemistry 3
Physics 3

SECOND SEMESTER

CLASSICAL AND SCIENTIFIC

Required
Political Science 5

PEDAGOGICAL

Required
Pedagogy 9 *

* Either Pedagogy 8 or Pedagogy 9 must be taken in the Senior year, but not both.

Elective
(any four)
Greek
Latin 6 or 8, 11 or 13
English 6, 8 or 10, 12
German
French
Philosophy 5, 7
Pedagogy 7
Political Science 3, 8, 9 or 10, 11, 13, 15
History 6, 8
Mathematics 6, 9, 10
Botany 4 or 6, 7
Zoölogy 3
Geology 2, 4
Chemistry 4, 6
Physics 4

Political Science 5
Elective
(any three)
Greek
Latin 6 or 8, 11 or 13
English 6, 8 or 10, 12
German
French
Philosophy 5, 7
Pedagogy 7
Political Science 3, 8, 9 or 10, 11, 13, 15
History 6, 8
Mathematics 6, 9, 10
Botany 4 or 6, 7
Zoölogy 3
Geology 4
Chemistry 4
Physics 4

DEPARTMENTS OF INSTRUCTION

I. BIOLOGY

The courses in Botany and Zoology are designed for those who wish to know something of the elementary principles and aims of these sciences, to lay a broad foundation for advanced scientific work, to teach Natural Science, or to study Medicine, Agriculture, or Forestry.

Students giving especial attention to Forestry should take, in addition to 7, 5 and 6 for structure of timber and growth of trees, and 3 for destruction of timber by fungi and diseases of trees. These courses provide two years of continuous advanced work in Forestry.

BOTANY

PROFESSOR BURT

1. *Elementary Biology*

The Morphology of Cryptogams. An introductory course giving a general survey of the plant world from the simplest organisms up to the flowering plants. Lectures and recitations on the morphology, physiology, and reproduction of plants and the relation of fungi and bacteria to fermentation, putrefaction, and disease. The laboratory work consists chiefly of the microscopic study of the principal representative cryptogams.

First semester; three periods a week. Required for B.S. students some time after Freshman year; elective for A.B. students after

Freshman year.* Recommended as a Sophomore course. Laboratory fee, $5.

2. *General Botany of Flowering Plants*

Laboratory work and recitations on seed, shoot, root, flower, and fruit, and on the more elementary features of germination, nutrition, pollination, dissemination, and plant breeding. Propagation and care of plants. Determination of plants and the preparation of herbarium specimens.

Second semester; three periods a week. Required for Sophomores in the Pedagogical Course; elective for Sophomores in the Classical and Scientific Courses. Those who have had Botany in high school may elect 1 instead of 2.

3. *Fungi and Lichens*

A course in which the higher groups of economic fungi and the myxomycetes and lichens are studied in detail. Edible and poisonous fungi, fungi destructive to timber and trees; lectures on their structure, life history, and classification. Laboratory work on external morphology, microscopic structure, and results produced by these plants; determination of the genera and frequently of the species studied. Unusual advantages for this course are afforded by the proximity of the College to forests.

First semester; three periods a week. Elective after 1. (Given in 1909-10; to be given again in 1911-12.) Laboratory fee, $5.

4. *Bacteriology*

A course for general education on bacteria, germs, or microbes in their relation to the individual, the household, and the community. Lectures on the morphology and life history of bacteria, culture methods, drinking water, contamination of food, beneficial bacteria, some pathogenic species and the diseases they cause, infection, and immunity. Laboratory work in the preparation of culture media, destruction of bacteria, isolation of species, and study of pure cultures. This course affords a good foundation for the special work on pathogenic bacteria in medical Colleges.

Second semester; three periods a week. Elective after 1 and 2. (Given in 1909-10; to be given again in 1911-12.) Laboratory fee, $5.

* NOTE: Except when equivalent courses have been accepted for admission.

5. *Histology of Plants*

Recitations and laboratory work on external morphology of plants, the cell, cell fusion, tissue systems, structure of woods, the development of the secondary or adult tissues from embryonic tissue; technique of imbedding, sectioning, and staining for study of nuclear and cell structure.

First semester; three periods a week. Elective for Juniors and Seniors who have had 2 or Botany in high school. (To be given in 1910–11.) Laboratory fee, $5.

6. *Physiology of Plants*

Continuation of 5. Having studied in 5 the anatomy of the plant body, the student here takes up in recitation, laboratory work, and experiments the work of the several tissues and organs of the living plant. These studies cover stability of the plant body, nutrition, respiration, starch and sugar formation, work of plant ferments, growth, phenomena of movement and reproduction.

Second semester; three periods a week. Elective after 5. (To be given in 1910–11.) Laboratory fee, $5.

7. *Forestry*

Lectures on the scope and function of forestry, the principles and practical methods of establishing and treating woodlands, the life and habits of trees in forests, improvement of the character and composition of the forest, establishing woods by seed and transplanting. Laboratory work in forest botany; the systematic study of local species in their spring aspect.

Second semester; three periods a week. Elective for those who have taken 2 or equivalent.

ZOOLOGY

Assistant Professor Brown

1. *General Zoology*

An elementary course in general Zoology. The lectures and recitations start with an introduction to the study of animals, the nature and characteristics of the animal organism, and the basis of classifi-

cation. Then follows a systematic study of the larger subdivisions of the animal kingdom, supplemented by lectures on the cell and cell structure, embryology of metazoans, evolution, variation, natural selection, saltation, and heredity. Typical representatives of the various groups will be studied in the laboratory.

First semester; three periods a week. Required for Sophomores in the Pedagogical Course; elective for Sophomores in the Classical Course.

Second semester; three periods a week. A repetition of the course of the first semester; required for B.S. students some time after the Freshman year. Recommended as a Sophomore course. Laboratory fee, $5.

2, 3. *Comparative Anatomy of Vertebrates*

A systematic study of the comparative anatomy of vertebrates. The first semester is devoted to the study of the epidermis and epidermal structures (scales, feathers, hairs, etc.), and the skeleton or hard parts of the various groups of vertebrates. The second semester is devoted to a comparative study of the soft anatomy, including the muscular system, nervous system, organs of nutrition, respiration, circulation, and the urogenital system. The laboratory work consists of the dissection of typical representatives of the various groups of vertebrates.

Three periods a week throughout the year. Elective for Juniors and Seniors who have had Zoology 1. Laboratory fee, $5.

II. CHEMISTRY

PROFESSOR MCGILTON

The study of Chemistry is pursued in the well-equipped laboratories of the Warner Science Hall. The course is designed to give the student an insight into the principles of the science and to make him acquainted with the more frequently occurring elements and compounds. The elements of Inorganic Chemistry are taught by lectures, laboratory work,

and recitations from a text-book. The applications of Chemistry to modern industry and some of the recent advances in the science are discussed. Advanced courses of lectures and laboratory work are offered in Inorganic and Organic Chemistry, open only to those who have completed successfully the elementary courses. It will be noted that those who desire three years of Chemistry must begin the subject in the Sophomore year.

1. *Descriptive Chemistry*

Non-metallic elements and their principal compounds and their relation to the metals. Acids, bases, and salts are studied carefully and their formation illustrated. Electrolytic dissociation, ionisation, Faraday's laws and the theory of solution are discussed at length and illustrated. Numerous chemical problems involving atomic and molecular weights, percentage composition, etc., are solved by the student. One of the main objects of the course is to give the student a broad appreciation of the importance of chemical processes in the structure of matter and the relations of these processes to life. Lectures and recitations.

First semester; three hours a week. Elective for A.B. Juniors; required for B.S. students some time after Freshman year. Laboratory fee, $5.

2. *General Laboratory Chemistry*

Lectures, recitations, and laboratory work on general descriptive chemistry. By means of the study of the preceding semester, the student is able, at his own desk and with his own apparatus, to manufacture the most important chemical compounds and to isolate the principal elements. Full notes are kept by him of each step taken and of each observation made, and frequent reports are presented to the instructor. The student has constantly brought to his attention, by lectures and the use of reference books, the sources and industrial value of the substances which he handles.

Second semester; three hours a week, or three periods a week of laboratory work. Elective in the same year for A.B. students who have completed 1. Must be taken by all B.S. students consecutively with 1 some time after Freshman year. Laboratory fee, $5.

3. *Qualitative Analysis*

Special attention is given to the analytical reactions of each base and to practice in the separation of metals from each other in unknown liquid and solid mixtures. The characteristic reactions of acid radicals are studied and the complete constitution of unknown bodies is determined. Preliminary tests and blow-pipe analysis are a part of the work.

First semester; three hours a week. Open to all Juniors and Seniors who have completed 2. Laboratory fee, $5.

4. *Gravimetric Quantitative and Volumetric Quantitative Analysis*

Analysis of minerals and ores. The various methods for decomposing silicates and refractory substances and bringing them to a condition of solution are carefully studied. The student learns the use and manipulation of the chemical balance, makes quantitative determinations of metals, and studies the percentage composition of compounds. Stoichiometry, with practice in chemical problems, is especially emphasized. The making of standard solutions and their applications in the determination of the percentage composition of bodies volumetrically form a part of the work.

Second semester; three hours a week. Open to all students who have completed 3. Laboratory fee, $5.

5. *Advanced Quantitative Analysis*

Analysis of milk and potable waters. The application of chemistry to metallurgy and to typical modern industries. The preparation of inorganic compounds which show a variety of important and instructive processes. Introduction to the principles of organic chemistry.

First semester; three periods a week. Elective for those who have taken 4. Laboratory fee, $5.

6. *Organic Chemistry*

A continuation of 5. Lectures and recitations and laboratory work devoted to the preparation of compounds of carbon and to a study of typical reactions of organic chemistry.

Second semester; three periods a week. Elective for those who have completed 5. Laboratory fee, $5.

III. ENGLISH

PROFESSOR WRIGHT
ASSISTANT PROFESSOR CADY

The department of English is conducted on the two-fold basis of the language and the literature. Text-books are supplemented by the materials of the library, and work is brought to date, as far as practicable, by the additional means of lectures. A course in methods is also offered to those who purpose teaching English. The department aims to secure a knowledge of historical development in the English tongue; an appreciation of what is best in the writings of its users; and ability in personal practice for creditable literary work. To secure these results three lines of study are pursued:

I. *English Literature.* In connection with the work in composition and rhetoric, a Freshman course in American literature is given. The second half of the Sophomore year is devoted to a general survey of the principal English authors from Chaucer to the present time, the work being introductory to the more detailed investigations of the various elective courses.

II. *Rhetoric and the English Language.* The work in composition and rhetoric is placed at the beginning of the College course and continued through the Freshman year. Familiarity with the common rules of rhetoric is assumed, and the study is conducted largely from the standpoint of its underlying principles; an abundance of written work, however, is introduced for its immediately practical results. The first half of the Sophomore year is given to a study of the development of the English language, with special reference to its syntax. A further course

in Old English in the Junior year is preliminary to a study of Chaucer and fourteenth century English.

III. *Rhetoricals.* Rhetorical exercises are conducted in the Chapels on Saturday mornings. Their aim is to train students in the appropriate presentation of their own thought. Orations or essays are delivered by each Senior, Junior, and Sophomore.

The English schedule, aside from the rhetoricals, is as follows:

1. *Composition and Rhetoric*

A familiarity with the fundamental rules of rhetoric being assumed, the work is divided between practical composition and a study of the art on the basis of its principles. Weekly compositions are required, which are progressive throughout the year. In connection with this course, collateral work in American literature is given.

First semester; three hours a week. Required of all Freshmen. Assistant Professor Cady.

2. *Composition and Rhetoric*

A continuation of the work of 1.

Second semester; three hours a week. Required of all Freshmen. Assistant Professor Cady.

3. *History of the English Language*

A presentation, through text-book and lecture, of the place of English in the Indo-European family of languages and of the development of its syntactic forms.

First semester; three hours a week. Required of all Sophomores. Professor Wright. (Not given in 1909–10, two semesters being given to 4.)

4. *History of English Literature*

A rapid treatment of the successive phases of English literary development. The leading facts of English history are also discussed whenever they are necessary to an adequate understanding of the subject.

Second semester; three hours a week. A Sophomore elective. Professor Wright.

5. *Old English*

A course in the development of the English language and literature from the first Teutonic settlements to the fourteenth century. Primarily linguistic, and preparatory to 6.

First semester; three hours a week. Elective for Seniors and Juniors. Professor Wright. (Not given in 1909–10, its place being taken by a course in English Biography.)

6. *Chaucer and His Contemporaries*

In this course the end in view is a literary appreciation, soundly based on a knowledge of the language secured through 5.

Second semester; three hours a week. Elective for Seniors and Juniors who have taken 5. Professor Wright. (Not given in 1909–10.)

7. *Victorian Prose*

Macaulay, Carlyle, Ruskin, Arnold, Huxley. A study of certain notable utterances of each, to determine their chief characteristics as stylists and the nature of their contributions to Victorian thought.

First semester; three hours a week. Elective for Seniors and Juniors. Professor Wright. (Given in 1909–10.)

8. *Victorian Poetry*

Tennyson, the Brownings, Matthew Arnold, the Rossettis, William Morris. A study similar to that outlined in course 7.

Second semester; three hours a week. Elective for Seniors and Juniors. Professor Wright. (Given in 1910.)

9. *The Principles of Literary Criticism*

A detailed study of the nature of literature and of its intellectual, emotional, and formal elements.

First semester; three hours a week. Elective for Seniors and Juniors. Professor Wright. (To be given in 1910–11.)

10. *The English Novel*

A study of its origin and development, of the various types and their chief exponents, and of present-day tendencies.

Second semester; three hours a week. Elective for Seniors and Juniors. Professor Wright. (To be given in 1911.)

11. *Shakespeare*

This course is an intensive study, through the medium of the plays, of the development of Shakespeare, the man and the dramatic artist.

First semester; three hours a week. Elective for Seniors and Juniors. Assistant Professor Cady. (To be given in 1910–11.)

12. *Methods in the Teaching of English*

A course devoted to a consideration of the problems of the Department of English in the secondary schools, and intended to be of help to prospective teachers in that department. Critical examination of important writings upon the subject, and discussion of theories therein advanced. An endeavor to determine the purposes of English study and the various means whereby they may be most effectively accomplished.

Second semester; three hours a week. Elective for Seniors. Assistant Professor Cady.

IV. FRENCH

Assistant Professor Robinson

Elementary courses in French are offered for those who have not presented the language for admission. Thorough grammatical drill is emphasized and frequent prose exercises are required in the first and second years. The importance of correct pronunciation is realized, and conversation in French is encouraged in the classroom. The study of French literature is begun in the second year and continued throughout the course, alternate years being devoted to the study of different epochs. Students of any class may take any course in French for which they are fitted.

1. *Beginning French*

Elements of the grammar; drill in pronunciation; reading of easy prose; translation; study of the irregular verbs.

First semester; three hours a week.

2. *Beginning French*

Irregular verbs completed; dictation exercises; easy prose such as Malot, *Sans Famille;* Dumas, *Excursions sur les Bords du Rhin.*

Second semester; three hours a week.

3, 4. *Intermediate French*

Thorough review of grammar; composition, and translation from English into French; reading, without translation, of easy texts; translation of About, *Le Roi des Montagnes;* Hugo, *La Chute;* Scribe, *Le Verre d'Eau;* Balzac, *Le Curé de Tours;* Loti, *Pêcheur d'Islande.*

First and second semesters; three hours a week. Open to those who have had 1 and 2, or their equivalent.

5, 6. *Introduction to French Literature*

History of the development of the French language and literature; the epic poetry of the Middle Ages; the seventeenth century drama, Corneille, Molière, Racine; the literature of the eighteenth and nineteenth centuries; selections from Voltaire, Rousseau, Hugo, Musset, Balzac; lectures and library reading.

First and second semesters; three hours a week. Open to students who have had two years of French.

7, 8. *Seventeenth Century Literature*

The classical drama; Corneille, Molière, Racine; the poetry of La Fontaine and Boileau; French prose from Descartes to St. Simon.

First and second semesters; three hours a week. Open to students who have had 5 and 6. (To be given in 1911–12.)

9, 10. *Eighteenth Century Literature*

Montesquieu, Voltaire, Rousseau, LeSage, Marivaux, Beaumarchais.

First and second semesters; three hours a week. Open to students who have had 5 and 6. (Given in 1910–11.)

11. *An Advanced Course in French Syntax*

This course, for students planning to teach French, will consist of a critical study of the principles of syntax and the best methods of presenting these principles.

Second semester; three hours a week. Open to students who have had three years of French. (To be given in 1910–11.)

V. GEOLOGY

Assistant Professor Brown

Vermont offers an especially attractive field for the study of Geology. The rocks of the Champlain valley illustrate some of the most interesting fields of geological study, and the largest interests of the State, the marble, granite, and slate quarries, are within the field of economic Geology, to which special attention is paid. Field work is emphasized and the collections of the College in Mineralogy and Paleontology are constantly employed. It is desirable that only those students elect the course in Geology who have already completed the elementary courses in Physics and Chemistry.

1. *General Geology*

Dynamical Geology; a study of the atmospheric, aqueous, igneous, and organic agencies acting on and modifying the earth's surface; structural Geology; the rocks of the earth's crust; structure of rock masses; stratification; dislocation and fracture of strata; cleavage; joints, and mineral veins. Lectures, recitations, and laboratory work.

First semester; three periods a week, and three to five field trips. Elective for Juniors and Seniors in the Classical and Scientific Courses; required for Juniors in the Pedagogical Course.

2. *General Geology*

Stratigraphic and Historical Geology and Elementary Paleontology; the history of the evolution of the earth and of the organic

kingdom. Lectures, recitations, and laboratory work, supplemented by not less than five field trips to nearby points of interest.

Second semester; three periods a week. Required for Juniors in the Pedagogical Course; elective in the Classical and Scientific Courses for those who have had 1.

3. *Economic Geology of Vermont*

A general survey of the economic Geology of Vermont, including a discussion of the marble, granite, and slate industries, and the mineral, mine, and quarry resources of the State. Statistics of the mineral products and industries; water and water powers of the State; soils, their composition and influence upon agricultural pursuits. The principles of economic Geology; the origin and nature of ore deposits, mineral veins, and non-metallic products.

First semester; three periods a week. Elective for those who have had 1 and 2.

4. *Petrography and Mineralogy*

Elementary Mineralogy; minerals, crystals, crystal systems, cleavage, hardness, optical properties; determinative Mineralogy and blow pipe analysis. The microscopic examination of mineral and rock sections; structure, texture, and classification of rocks.

Second semester; three periods of two hours each. Elective for Juniors and Seniors. Laboratory fee, $5.

VI. GERMAN

Assistant Professor Skillings

The instruction in German aims, on the one hand, to develop in the student a practical reading (not translating) ability, so that he may use German readily in this and other branches of study, and, on the other hand, to introduce him to German literature. Three years of thorough study, either in preparatory school or college, will ordinarily be necessary before the literary courses can be pursued profitably.

In the earlier stages of the study, the primary aim is to develop a feeling for the language—Sprachgefühl. Translation is graduallydispensed with, in the belief that only by so doing can one read fluently and widely, or appreciate the beauties of form and expression in the works of literature. By emphasizing the language as a living vehicle of expression, it is expected that some students will make a good beginning in learning to speak German. All courses are conducted in German, as far as is deemed practicable.

Courses 1, 2, 3, 4, 5, and 12 aim to impart a practical knowledge of the language; courses 6, 7, 8, 9, 10, and 11 are chiefly literary in aim. Those intending to teach German, to be properly equipped, should obtain an extensive acquaintance with the literature, as well as a mastery of the language. In planning their work, students are advised to take advantage of the arrangement of certain courses in alternate years. Students of any class may take any course in German for which they are fitted.

1. *Beginning German*

Thomas's German Grammar, Part I, begun and reviewed. Drill in pronunciation and in comprehending the spoken language; in the formation of a vocabulary; in the inflection of nouns, adjectives, and verbs. Memorizing of idioms and poems. Dictation. Newson's German Reader begun.

First semester; three hours a week.

2. *Beginning German*

Thomas's German Grammar, Part I, finished and reviewed. The drill of the first semester continued. Study of synonyms and of word formation. Newson's German Reader finished. Reading of a short story with conversation and free reproduction based on text read.

Second semester; three hours a week.

3, 4. *Intermediate German*

Thomas's German Grammar, Part I, rapidly reviewed; portions of Part II studied. Reading of Mosher's "Willkommen in Deutschland," of short stories and one-act plays by modern authors, and of some historical prose. A part of the reading is done at sight. Great stress is laid on a fluent and intelligent reading of the text. Conversation, free reproduction and composition based on the texts read. Dictation. Memorizing of idioms and poems. Study of synonyms and of word-formation. Pope's German Composition begun. Assigned outside reading of short stories.

First and second semesters; three hours a week. Open to those who have had courses 1 and 2 or two years of German in preparatory school.

5. *German Prose of the Nineteenth Century. Practice in Writing German*

The work of this course is designed (1) to extend and strengthen the student's mastery of the language; (2) to lead him to read German fluently so that he may be able to consult works of reference in German, and to use the language freely in the more advanced courses.

The class work consists of the careful study of selected works in modern fiction, biography, historical and critical prose. The authors chiefly studied are Kleist, Heine, Freytag, Ludwig, Keller, and Sudermann. Rapid reading outside the classroom is assigned, and the student may elect whether this shall be in short stories by modern authors, or in scientific German, or in newspaper German. Pope's Composition is used for writing German.

First semester; three hours a week. Open to those who have had courses 3 and 4 or their equivalent.

6. *The Modern German Drama. Practice in Writing German*

The dramatic masterpieces of Kleist, Grillparzer, Hebbel, Hauptmann, and Sudermann are studied and discussed in class. The development of the German drama in the nineteenth century is traced. The practice in writing German and the assigned outside reading of course 5 are continued.

Second semester; three hours a week. Open to those who have had course 5.

7, 8. *The Classic Period*

Detailed study of the masterpieces of Lessing, Schiller, and Goethe, with some attention to the literary, social, and political aspects of the time, and the relation of those authors and their works to the period. Assigned outside reading in other works of these authors not read in class and in critical prose. Reports in themes in German by members of the course.

First and second semesters; three hours a week. Open to those who have had courses 5 and 6. (Omitted in 1909–10.)

9, 10. *Goethe and His Time*

A survey of the life and works of Goethe. The class work consists of the study of some of his representative writings in their chronological order, for the most part, together with the discussion of the different phases of Goethe's life and his relation to his time. The class work is supplemented by collateral reading in some of his works not read in class, reports on assigned topics, and themes in German.

First and second semesters; three hours a week. Open to those who have had courses 5 and 6. (Courses 7 and 8 are given in alternate years with courses 9 and 10. Courses 9 and 10 are given in 1909–10.)

11. *A General View of German Literature*

This course is designed to give a general knowledge of the great men and the leading ideas in German literature from the Middle Ages to the present. The work is based on the study of a manual of the literature, supplemented by lectures and parallel readings in representative writers of different periods and reports on assigned topics. The course is designed especially for those intending to teach German.

Second semester; two hours a week. Open to those who have had courses 7 and 8 or 9 and 10. (Omitted in 1909–10.)

12. *The Teaching of German*

A course for prospective teachers in secondary schools. The class work consists of the discussion of such subjects as the purpose of modern language study, methods of instruction, relative importance of the various topics, text-books, the use of Realien, the elements of phonetics, history of the language, conversation, themes in German, collateral reading.

Second semester; two hours a week. Open to those who have had courses 7 and 8 or 9 and 10. (Courses 11 and 12 are given in alternate years.)

VII. GREEK

Professor Burrage

The work in Greek is planned to meet the needs of three classes of students: those who simply desire to read widely in the literature, those who plan to teach Greek, and those who, with no knowledge of the language, wish to acquire a systematic and comprehensive knowledge of Greek life and thought. Students who have not studied Greek before entering College may take Beginner's Greek (12, 13), and after two semesters in that course continue the study with those who offer Greek for entrance.

The general student, as well as the future teacher of Greek, needs an extensive and fairly intimate acquaintance with the literature; and this consideration has influenced the choice of the authors to be read. In the four years of work as outlined below, opportunity is given to read the masterpieces of history, drama, oratory, and philosophy. In Junior or Senior year a special course in methods of teaching is offered, and opportunity is given for the practical application and testing of the principles discussed in the classroom.

For those who know no Greek, the courses in Greek Life and Greek Thought are planned. Here the various ideals of the Greeks, as we find them embodied in their customs, institutions, art, and in their literature are fully treated, and constant com-

parison is made between them and the ideals of our own day. In this way the student may acquire an accurate conception of the great part which the Greeks have played, and still are playing, in the life of mankind.

1. *Marchant's Reader; Herodotus (selections)*

In connection with the *Reader* and *Herodotus* there will be frequent exercises in composition, and a thorough review of forms and syntax.

First semester; three hours a week. A Freshman elective course.

2. *Homer*

The *Odyssey*. Those parts of the epic that are of most vital interest are carefully translated and studied. The ethical import is carefully kept in view, and the conditions of the life described in the poem are illustrated by a consideration of archaeological discoveries. Facility in reading is promoted by frequent exercises in sight translation.

Second semester; three hours a week. A Freshman elective course.

3. *Selections from the Lyric Poets; Euripides, Iphigenia among the Taurians*

An introduction to other forms of poetry than the epic, and to other kinds of meter than the dactylic hexameter. The development in poetical form from Homer to Euripides is traced. Among the authors from whom extracts are made are Archilochus, Alcaeus, Sappho, Anacreon, Simonides, and Bacchylides. In connection with the *Iphigenia among the Taurians* of Euripides, lectures are given on the origin, history, and purpose of the drama.

First semester; three hours a week. A Sophomore elective course.

4. *Plato and Xenophon*

Apology, *Crito*, selections from the *Phaedo*, of Plato; the *Memorabilia* of Xenophon. A study in the life, character, and opinions of Socrates, as he is portrayed by his two friends and disciples.

Elementary statement of a few of the problems of philosophy that Socrates raised and tried to deal with. Discussion of the position occupied by Socrates and Plato in the world of philosophy.

Second semester; three hours a week. A Sophomore elective course.

5. *Sophocles and Aeschylus*

The *Oedipus Tyrannus* and *Electra* of Sophocles; the *Prometheus* and *Persians* of Aeschylus.

6. *Aeschylus, Euripides, and Aristophanes*

Selections from the *Oresteia* of Aeschylus; the *Medea* of Euripides; the *Frogs* of Aristophanes.

These two courses constitute between them a year's work, and give the student a tolerably complete idea of the four great dramatists of Athens. They lay a good foundation for courses in the modern drama or in ethics. The external changes in the drama are carefully noted, and the growth of religious concepts is traced. The remaining plays of the authors mentioned above are read by the student in translation, and reports are required on the more important ones.

First and second semesters; three hours a week. A Junior-Senior elective course, alternating with 7, 8. (To be given in 1910–11.)

7. *Plato*

The *Republic*.

8. *Aristotle*

Ethics, Books I.–IV., and X.

These two courses form a year's work, and afford students of Philosophy and Ethics a chance to read in the original tongue the two masterpieces of the two greatest minds of antiquity. The charm of the *Republic* as literature will receive special emphasis, and the selections will include all the passages of startling originality.

First and second semesters; three hours a week. A Junior-Senior elective course, alternating with 5, 6.

9. *Greek Thought and Literary Expression*

Greek in translation. This course alternates with the course in *Greek Life*, and requires no knowledge of the Greek language.

Extracts illustrative of the excellences of the principal Greek writers are read before the class by the instructor and criticised, and the student is expected to supplement this by extensive reading on his own part. The course and development of the Greek literature is systematically traced in lectures. Frequent tests are given to determine the progress of the class. The course will be given first in 1910–11, and will be confined to the writers of poetry.

Second semester; three hours a week. A Junior-Senior elective course.

10. *Greek Life*

Lectures, stereopticon talks, outside reading. For this course no knowledge of Greek is necessary. The instruction is given by means of lectures, supplemented by extensive reading on the student's part. Written tests come every two weeks. The department possesses many slides, illustrative of every phase of Greek civilization, and the library contains the more important works on archaeology. The course includes such topics as architecture, dress, education, art, and social, political, and religious ideals.

Second semester; three hours a week. A Junior-Senior elective course. (To be given in 1911–12.)

11. *Xenophon and Homer*

The *Anabasis* of Xenophon; the *Iliad* of Homer. This course is intended for students who plan to teach Greek in secondary schools. Familiarity with the style of Xenophon and Homer is promoted by copious reading. Careful distinction is made between the essentials and non-essentials of the language, and an attempt is made to construct such a teaching-scheme as will both save the pupil's time and maintain his interest. The leading text-books are compared and criticised. Methods of teaching vocabulary, grammar, reading at sight, and translation are discussed. Special attention is paid to the problem of the dull or slow pupil, and of the blundering and faulty recitation. Each member of the course is expected to demonstrate his grasp of principles by successful conduct of a class.

First semester; three hours a week. An elective course open to all who have pursued Greek two years in College.

12, 13. *Beginners' Greek*

A course for those who have never studied Greek, yet wish to take Greek in College. During the first semester the elements of the language are acquired from some one of the First Greek Books. The second semester, portions of the first four books of the *Anabasis* are read, together with easy selections of more general interest. The course must be continued through the two terms, and should fit the student to take up the regular Freshman Greek the following year.

First and second semesters; three hours a week. Elective for any class.

VIII. HISTORY

Professor Howard

Assistant Professor Wetherell

Mr. White

It is assumed that students entering College have had thorough preparation in the outlines of Ancient, English, and American History. Starting on this basis, the courses offered by the department are progressive. It is therefore always desirable, and sometimes necessary, that students who intend to take the more advanced work should begin with the elementary.

Before graduation, candidates for the degree of A.B. must have taken a consecutive year in History, either 1 and 2, or 3 and 4. This regulation applies first to the Class of 1913. Course 1 is required of all students taking the Pedagogical Course; 3 and 4 are for students desiring general historical knowledge; 5 and 6 are designed to serve as an introduction to Political Science and are therefore technical.

1. *Mediaeval European History*

Outline of Western Europe from the fall of the Western Roman Empire to the beginning of the sixteenth century. Courses 1 and 2 cover periods of peculiar importance. They are considered fundamental to all later work in history, and are also valuable in preparation for many courses in other departments. They will be made as broad as time allows.

First semester; three hours a week. Elective for Freshmen in the Classical and Scientific Courses; required in the Pedagogical Course. Assistant Professor Wetherell.

2. *Modern European History*

A continuation of 1 from the beginning of the sixteenth century to the present time. This course should lead to a good understanding of the problems of present-day Europe. The part taken by England in Modern History will be made prominent, and connections with American History will frequently be pointed out.

Second semester; three hours a week. Elective for Freshmen. Assistant Professor Wetherell.

3. *American Colonial History to* 1783

A liberal study of the planting and development of the various English colonies in America. All phases of colonial life are included. This study is preceded by a consideration of the European conditions which led to the discovery of America, together with a brief account of explorations by the principal European nations, and is followed by a rapid survey of the American Revolution. A good background of European—especially English—History is very desirable.

First semester; three hours a week. Elective for Sophomores and Juniors. Assistant Professor Wetherell.

4. *American History from* 1783

A continuation of 3, tracing the general development of the United States during the Confederation and national periods. Similar to Course 5 offered to Juniors in 1909–10, but with less emphasis on political events and more on questions industrial, social, etc. Documentary and other source materials are freely used.

Second semester; three hours a week. Elective for Sophomores and Juniors. Assistant Professor Wetherell.

5. *Constitutional History of England*

Starting with an analysis of the Anglo-Saxon system of government, the course traces the development of all the more important features of the British Constitution, laying emphasis on those principles which are the basis of law in both England and America. All the great English liberty documents—Henry I.'s Charter, Magna Charta, Petition of Right, Habeas Corpus Act, Bill of Rights, etc.—are read and discussed. This course leads to 6, which is continuous with it, and which should be elected during the same year. Together they form an historical explanation of the system of government and law under which the American of to-day lives. A good knowledge of general English History—as much as may be gained in Courses 1 and 2—is taken for granted.

First semester; three hours a week. Elective for Sophomores and Juniors. Assistant Professor Wetherell.

6. *Constitutional History of the United States*

After a brief survey of the English colonial system in the first half of the eighteenth century and a consideration of the American colonists as Englishmen possessed of the system of government and law whose growth is traced in 5, the course includes a study of the typical forms of colonial government; the demands of the colonists as English subjects; the attitude of the British government; the growth of the spirit of rebellion and independence; the attempts at colonial union before and during the Revolution; the "critical period" and the struggle for a stronger national government; the framing and adoption of the United States Constitution; and the main facts concerning our later constitutional development to date illustrated by readings from the leading decisions of the Supreme Court. A detailed study of the text of the national Constitution and the reading of other important documents are features. A good preliminary knowledge of general events in American History is necessary.

Second semester; three hours a week. Elective for Sophomores and Juniors. Assistant Professor Wetherell.

7. *Intensive Study of a Period of History*

This course is designed to give detailed information, to indicate more clearly the nature and scope of history, and to aid in developing a type of mind. A limited period will be selected for study

during the first semester of each year. The work will consist of the reading of standard histories and biographies, followed by a careful examination of such original sources as are available. Students must have taken the history courses considered as preliminary, and should consult with the instructor before electing this work. The period for special study in 1910–11 will be the Reconstruction of the Southern States, 1865–1877.

First semester; three hours a week. Elective for Juniors and Seniors. Assistant Professor Wetherell.

8. *Ancient History*

A survey of the development of ancient civilization, with especial emphasis on the history of Greece and Rome. Much attention will be paid to the use of sources, as being of extreme importance in supplying the proper view-point and stimulus, especially to those who are to teach the Ancient History required in high schools.

Second semester; three hours a week. Elective for Juniors and Seniors. Mr. White.

9. *English Thought in the Nineteenth Century*

A study of the progress of English life in politics and government, in economics and sociology, and in religious conviction and practice; the extension of the franchise; the Chartist agitation; the Tractarian movement; scientific investigation and discovery.

First semester; three hours a week. Elective for Seniors. Professor Howard.

IX. LATIN

Professor Sanford

Mr. White

As in the case of one's own language, the study of vocabulary, of idiom, and of the general principles of syntax should be well out of the way by the end of preparatory school days, so the student in Latin,

on entering College, should be ready to appreciate the history, the biography, the comedy or tragedy, or whatever the literary form in which the Latin text may be cast, without the hindrance of grammatical prodding or of syntactical analysis. But this ideal ability in handling the language is not usually reached by all of the candidates for the Freshman class, and it is found necessary at stated times, during the first year of the course, to review general grammatical principles, and to write prose composition after paragraphs taken from the authors daily translated in the class-room. These authors for the first year will be Livy and Cicero, two acknowledged masters of their vernacular.

In the second year, with the reading of the text, the student makes an investigation into the religious, political, and social life of the Roman people as pictured in Tacitus and in Horace. In the former there are interesting questions in ethnology and inheritance of custom to be solved; in the study of the latter a thorough search among our own poets is made in order to determine the influence of the great lyrist upon his successors of the later days.

In the work of the last two years there are studies in topography, antiquities, and art; in advanced prose composition for those intending to teach the subject; in rapid reading; in the drama; in the lyrics, developing into mediaeval poetry and the hymns of the early Church; in letters, and in philosophy. Courses for those intending to teach, in which live questions belonging to the Latin class-room in seminary and high school are under continual discussion, are offered in the Senior and Junior years.

1. *Livy*

For formal translation such chapters of Livy, Books XXI to XXXIX, are selected as to constitute a fairly comprehensive story of the second Carthaginian war from its beginnings to the defeat at Zama. Library readings on the characteristics of Roman and Carthaginian, the nature of the struggle, and the importance of the results of the war are assigned to the class. Written tests in sight reading are from Livy and other historians. The method of question and answer in Latin gives the student a direct knowledge of simple form and syntax. During the semester there are required about twenty-five prose exercises based upon the text translated. These exercises include a thorough review of the more elementary principles of Latin writing, much practice in the handling of verb forms, and a study of the development and use of cases.

First semester; three hours a week. Required for A.B. Freshmen. Mr. White.

2. *Cicero*

Selections from the *Letters*. In order to promote correctness in translation and fluency of rendering the Latin period, several written tests in sight translation are given during the term, in which the papers presented are commented upon by the instructors in both the English and the Latin departments. The historical outline takes up the story at the time of the struggle between Republic and Empire and runs contemporaneously with the fortunes of Caesar and Cicero as written in the *Letters*. In order to further familiarize the student with the language as living and in action, some of the recitations will be conducted in Latin. Weekly exercises in prose deal largely with the subject of the development, history, and use of mood.

Second semester; three hours a week. Required for A.B. Freshmen. Mr. White.

3. *Tacitus*

The *Germania* and *Agricola*. Comparison of the style of Tacitus with that of other writers of his time. A study of the Roman colonial system. Outline of the history of the later Empire, with brief investigation into the subject of the influence of Rome on the northern tribes and, incidentally, our own inheritance of law and

custom from them. Library reading and the study of photographs of Roman remains in Germany and England.

First semester; three hours a week. Elective for Sophomores. Professor Sanford.

4. *Horace*

Selected *Odes* and *Epodes*. By comparison of the odes with lyrics in Latin and other languages the class attempts to estimate the place of Horace among the poets. The debt of English poetry to Horace is continually referred to, and borrowed or suggested phrases, imitations, and translations in our own lyrics are daily sought in illustration. Very careful preparation of note-books is required.

Second semester; three hours a week. Elective for Sophomores. Professor Sanford.

5. *A Study in Latin Lyrics*

Fragments preserved from the early writers are quoted to point out the beginnings of poetry. Selections from Catullus, Horace, Vergil, Ovid, Tibullus, Propertius, and others are read to show the Latin lyric in its perfection. A few poems of the Silver age are given to indicate the changes of form and style to mediaeval and monkish rhymes. The hymnology of the early Church.

First semester; three hours a week. Elective for Seniors and Juniors. (To be given in 1911–12.) Professor Sanford.

6. *A Study in Roman Philosophy*

Readings from the *Tusculan Disputations* of Cicero, *De Rerum Natura* of Lucretius, with extracts from Seneca, Marcus Aurelius, and Boethius.

Second semester; three hours a week. Elective for Seniors and Juniors. (To be given in 1911–12.) Professor Sanford.

7. *Roman Archaeology*

Lectures on the topography of Italy, and the buildings and statuary of Ancient Rome. Readings on various topics from Middleton, Lanciani, Jordan, Parker, Burn, Schreiber, Platner, and the journals are required, with careful preparation of note-books. Photographs, Canina, Piranesi, and Niccolini plates, and stereopticon views. (The course is intended as a background for the study

of advanced Latin, and should be elected by all those intending to pursue the subject further.)

First semester; three hours a week. Elective for Seniors and Juniors. Professor Sanford.

8. *Pliny*

Selections from the *Letters*. The course is intended to give practice in rapid reading. Comparison of the *Letters* with the correspondence of Cicero and others. Lectures on the book making and letter writing of the Romans.

Second semester; three hours a week. Elective for Seniors and Juniors. Professor Sanford.

9. *Advanced Latin Prose*

An investigation of vocabularies found in prominent Latin authors of both prose and poetry; a comparison of the periodic sentence with the loose structure of the English; examination of the diction of the authors used in the preparatory work; the writing of detached sentences and of connected discourse.

First semester; three hours a week. Elective for Seniors and Juniors. (To be given in 1911–12.) Professor Sanford.

10. *The Teaching of Preparatory Latin*

A study of methods and authors used; the relative value of vocabularies, grammatical drill, and sight reading; examination of textbooks; Caesar and the substitute authors; the incidental study of the Latin element in English speech with rapid examination of the vocabularies of Milton, Shakespeare, and others; Grimm's law; alternate drifts toward the Latin and toward the Saxon forms; colloquia; tests; the necessity of making Latin a live language; quality versus quantity; literary appreciation.

First semester; three hours a week. Elective for Seniors and Juniors. (To be given in 1911–12.) Professor Sanford.

11. *Vergil*

The reading of selections from the Aeneid, the Eclogues, and the Georgics, a study in literature rather than syntax; Vergil's personality and peculiar fame; his place among the world's poets; the debt of our own literature to the Aeneid.

Second semester; three hours a week. Elective for Seniors and Juniors. (To be given in 1911–12.) Professor Sanford.

12. *Outlines of Ancient and Mediaeval Art*

The buildings, the statuary, and the painting of the Egyptians, the Assyrians and Babylonians, the Greeks, and the Romans; the mission of the Greeks to the later nations in art; the skilful adaptation of the Romans from the models of all the previous schools; the development of early and mediaeval Italian art; Michael Angelo; Raphael. Illustrated by stereopticon and reflectoscope.

First semester; three hours a week. Elective for Seniors and Juniors. Professor Sanford.

13. *Outlines of Latin Literature*

A review of all of the authors from Ennius to Boethius; reading of translations; an attempt to form an estimate of the place and value of the literature as a whole, and the tendencies toward appreciation and depreciation at the present time; the passing of the Latin into the Italian, the French, and the other Romance languages; the jingles and the rhymes of the monks; attempts to revive the vernacular.

Second semester; three hours a week. Elective for Seniors and Juniors. Professor Sanford.

X. MATHEMATICS

Professor Bryant

Assistant Professor Swett

Assistant Professor McFarland

The courses in Mathematics are conducted with the design of imparting the discipline for which mathematical studies have been celebrated since the earliest times, and with a further view to conduct the student through the branches fundamental to Engineering and technical studies. For the latter purpose the course in Mechanical Drawing and Descriptive Geometry has been introduced, and

more practice is allowed in Field Surveying than formerly, the course extending through an entire year. Since these classes are small, being composed of students who desire to secure advance credits in engineering schools, much actual training in drafting and the field use of instruments is possible. Arrangements have been effected with several of the leading technical institutions whereby graduates who have had these courses will be admitted to the Junior classes of such schools without examination, thus combining a thorough college education with technical training of the highest grade. It is believed that such men will be better equipped for their profession than those who have not the advantage of a general College course.

1. *Solid Geometry*

Books VI, VII, VIII, and IX. Durell's Solid Geometry. Lines, planes, and angles in space; polyhedrons; cylinders and cones; the sphere and spherical triangles. The solution of numerous original exercises, including loci problems. Application to the mensuration of surfaces and solids.

First semester; three hours a week. Required of all Freshmen, except in the Pedagogical Course. Assistant Professor McFarland.

2. *Algebra*

Convergency and divergency of series; undetermined coefficients; binomial theorem; logarithms; permutations and combinations; probability; determinants.

Second semester; three hours a week. Required of all Freshmen, except in the Pedagogical Course. Assistant Professor McFarland.

3. *Plane and Spherical Trigonometry*

Trigonometric functions of angles in general; proofs of the principal formulas with examples on trigonometric transformations; inverse trigonometric functions; logarithms, their properties and applications; solution of right and oblique triangles; solution of

right and oblique spherical triangles; applications of spherical trigonometry.

First semester; three hours a week. Required of B.S. Sophomores. Elective for A.B. Sophomores. Assistant Professor Swett.

4. *Plane and Solid Analytic Geometry*

Loci and their equations; transformation of coördinates; discussion of equations of the straight line, circle, parabola, ellipse and hyperbola; the elements of solid analytic geometry, including a study of the point, the plane, and simple surfaces of revolution.

Second semester; three hours a week. Required for B.S. Sophomores. Elective for A.B. Sophomores who have completed 3. Assistant Professor Swett.

5, 6. *Surveying and Plotting*

This course emphasizes field work, actual practice with the various surveying instruments, work in the drawing-room, including the computations which arise in the work of the surveyor, also the making of scale drawings, profiles, and contour maps from notes taken by the students in the field. The use of the chain, tape, compass, and transit is taught during the first semester, followed by the various forms of leveling instruments during the second semester.

First and second semesters; three periods a week. Elective for students who have completed 3. Assistant Professor Swett.

7. *Differential Calculus*

Differentiation of functions; differentials and infinitesimals; series; expansion of functions; indeterminate forms; maxima and minima of functions of one independent variable; partial differentiation; maxima and minima of functions of two or more variables; direction of curves; tangents and normals; direction of curvature; points of inflexion; curvature; radius of curvature; evolute and involute.

First semester; three hours a week. Elective for students who have completed 4. Assistant Professor Swett.

8, 9. *Mechanical Drawing and Descriptive Geometry*

Draughting instruments and their use; mechanical drawing from objects; geometrical problems; lettering, tracing, and dimen-

sioning; representation of the point, line, and plane with problems relating to them; representation of plane surfaces, single curved surfaces, and surfaces of revolution; intersections of surfaces by lines, by planes, and by other surfaces; development of surfaces; A course particularly for those students intending to obtain advanced standing in some school of engineering.

First and second semesters; three two-hour periods a week. Elective for students who have completed 4. Assistant Professor Swett.

10. *Integral Calculus*

Integration of standard forms; integration of rational fractions; special methods of integration; definite integrals; application of integration to plane curves and certain volumes; multiple integration, with applications to the surface, volume, and moment of inertia of any solid; also to center of gravity, pressure of fluids, and force of attraction.

Second semester; three hours a week. Elective for students who have completed 7. Assistant Professor Swett.

11. *Astronomy*

The celestial sphere; astronomical instruments; determination of latitude, longitude, and time; the earth as an astronomical body; the moon's motions and physical characteristics; the sun's physical characteristics; revelations of the spectroscope; eclipses; planets; comets; stars and nebulae.

First semester; three periods a week. Elective for Juniors and Seniors. Professor Bryant.

XI. PEDAGOGY

Professor Collins

Assistant Professor McFarland

The Department of Pedagogy was established by the action of the Legislature of 1908 "for the education and training of high school teachers." The work of the department has been planned, consist-

ently with the purpose of the Act, to meet the needs of those students who wish, while pursuing studies for the degree of Bachelor of Arts, to fit themselves especially for positions as teachers, principals of high schools and academies, or supervisors of public schools. Such students should elect the Pedagogical Course outlined on pages 63 to 66. Other students may take the course; but those whose interest is in the cultural aspects of education will do better to limit themselves to the election of the courses in Educational Psychology and Educational History.

The full course of the department distributes the pedagogical subjects through the four years of College and arranges the subjects so as to allow the highest degree of specialization which is desirable in a collegiate department of education, including a liberal amount of observation and practice teaching in high school. The attention of prospective teachers is particularly called to this arrangement, by which, upon entering College, they may at once begin the gradual fulfillment of their purpose and develop their professional qualifications without sacrificing their opportunities to gain the broad and liberal culture which school teachers and administrators need. The course permits an excellent integration of a student's work in the various departments and encourages him to plan a close relationship between his pedagogical and non-pedagogical courses through the medium of the Departmental Courses in Teaching. All candidates for graduation from the Pedagogical Course must have completed at least one such Departmental Course. Through the co-operation of the heads of departments a very rich and attractive list of Departmental Courses is offered. These are:

Greek Thought and Literary Expression.

Greek Life.

Xenophon and Homer. The Teaching of Preparatory Greek.

The Teaching of Preparatory Latin.

Vergil.

Outlines of Ancient and Mediaeval Art.

Methods in the Teaching of English.

The Teaching of German.

French Syntax.

Modern European History (propaedeutic to the History of Education).

American Colonial History (propaedeutic to American Educational History).

The Teaching of History.

The courses offered in the Department of Pedagogy are framed to cover the history of education, the fundamental principles of studying and teaching, the teacher's technical equipment, and observation and practice teaching in high schools, under guidance.

1. *Educational Psychology*

Ways of studying mental phenomena; the nervous system and its functions; the dawning of conscious life in a child; the development of senses and their part in education; types of normal psychophysical activity; the steps in mental development; the period of adolescence; special functional studies; the psychological basis of method; how to study and how to teach; formulation of essential principles.

Second semester; three hours a week. Required of Freshmen in the Pedagogical Course. Elective for A.B. and B.S. Sophomores, Juniors, and Seniors in 1910–11. Professor Collins.

2. *History of Education in Europe*

Educational views and customs in ancient, mediaeval, and modern times. Education in the Homeric period; school life in old Greece; the new Greek education; early Roman education; Graeco-Roman

schools and schoolmasters; the training of the early Christians; the decline of classical learning and the rise of church control; the schools of the monasteries; scholasticism; the Universities of the Middle Ages; mediaeval student life; the educational significance of the Renaissance and the Reformation; the genesis of modern educational ideas and ideals. Text-books, Monroe, *Brief History of Education;* Painter, *Great Pedagogical Essays.*

First semester; three hours a week. Required of Sophomores in the Pedagogical Course. Elective for A.B. and B.S. Sophomores, Juniors, and Seniors in 1910–11. Professor Collins.

3. *American Education*

Elements of American educational history. The evolution of the American school system, in its elementary, secondary, and collegiate features. These are traced from their colonial beginnings in transplanted European ideas, through their various modifications in colonial times, the Revolutionary era, and the period of national expansion and development. Principles are emphasized in this part of the course rather than multiplicity of details. The latter part of the course will be given up to special studies of certain educational movements, types of special schools, important institutions, and educational leaders.

Second semester; three hours a week. Required of Sophomores in the Pedagogical Course. Elective for A.B. and B.S. Sophomores, Juniors, and Seniors in 1910–11. Professor Collins.

4, 5. *Secondary Education*

Professional training for secondary teachers. Principles of education; methods; organization and management; school hygiene; observation of high school work. Among special topics of these divisions may be named the psychological factors of secondary work: the adolescent pupil, the school and society, the curriculum, the study process, the recitation process, principles of general method, special methods; and the physical factors: the school plant, with its lighting, heating, ventilation, and care; the school pupil in respect to health, postures, infectious diseases, fatigue and nervousness; such topics as types of secondary schools, the teaching staff, the day's work, discipline and control, local conditions and problems. Training in critique and drill is afforded through observation of teaching in high schools, under supervision, and by practice in text-book criticism. Texts: De Garmo, *Prin-*

ciples of Secondary Education, I, II, with J. F. Brown, *The American High School*, and Hollister, *High School Administration*, as supplementary.

First and second semesters; three hours a week. Required for Juniors of the Pedagogical Course. Elective for A.B. and B.S. Juniors and Seniors in 1910–11. Assistant Professor McFarland.

6, 7. *Supervision*

The evolution, administration, and supervision of public schools. A study first of broad administrative principles growing out of American conditions; later, detailed studies of school politics, school law, school finances, and local problems illustrated in Vermont's educational history. Principles of supervision are established. A study of actual conditions as revealed by school reports is then made; and finally, the student is sent into the field himself to report his observations of the schools of Middlebury and vicinity. Such reports include school mechanism, architecture, conditions of buildings and grounds, programs of school work, tests of good teaching, suggested changes and modifications in the curriculum, grading and promotion of pupils, the hygiene and physical culture of the school, detection and treatment of deficients or abnormal pupils, the improvement of teachers in service, the use of library facilities by teachers and pupils, problems involving relations with parents, officials, and the general public. The course is designed only for those intending to become supervisors, and is open only to those who have taken courses 1 to 5 inclusive, as prerequisites.

First and second semesters; three hours a week. Elective for Seniors of the Pedagogical Course. Professor Collins.

8, 9. *Practice Teaching*

Teaching in public high school under supervision for one semester is required of all students of the Department of Pedagogy before graduation. The class will be divided for this purpose into two sections before the completion of 5. Students of Division I will elect 8 as a three-hour course for the first semester and will receive teaching appointments accordingly, and students of Division II will elect 9 and receive similar appointments for the second semester. Observation will be prescribed at the discretion of the instructor, to precede, accompany, and follow the teaching appointments.

Three hours a week. Required of all Seniors of the Pedagogical Course. Assistant Professor McFarland.

XII. PHILOSOPHY

Assistant Professor Cunningham

The aim of the work in this department is at once critical and historical. The effort is made, in the first place, to acquaint the student with the more fundamental problems of the mental sciences, and to enable him to approach the solution of these problems in a scientific manner. The historical development of philosophic thought is also emphasized; the student is thus brought naturally into touch with the deeper metaphysical problems and is given a vantage-ground for appreciating their significance and bearings. To compass this two-fold aim the following courses of study have been arranged:

1. *Logic*

An introductory course in formal logic. Both the deductive and the inductive aspects of thought are considered. Nature and rules of the syllogism; moods; figures; fallacies of deductive reasoning; the problem and methods of induction; fallacies of induction; nature and laws of thought. Recitations.

Second semester; three hours a week. Required of all Sophomores.

2. *General Psychology*

Introductory study of the fundamental problems of normal psychology. The nature and methods of the science; elemental conscious states; complex conscious processes. Required reading for study and discussion, supplemented by experiments. The results of experiments are to be carefully entered in note-books and reported to the instructor from time to time.

First semester; three hours a week. Required of Juniors in the Classical and Scientific Courses. Elective for Juniors in the Pedagogical Course.

3. *Ethics*

Historical, critical, and practical. Study of the development of moral ideals and ethical principles; criticism of various ethical theories; application of fundamental moral principles to modern social and economic problems.

Second semester; three hours a week. Required of Juniors in the Classical and Scientific Courses. Elective for Juniors in the Pedagogical Course.

4. *History of Philosophy and Ethics*

General survey of the development of ethical and philosophical conceptions from the sixth century B.C. to the beginning of Modern Philosophy. The course deals in some detail with the Greek period, attention being fixed primarily upon Socrates, Plato, and Aristotle. The period of the Middle Ages is passed over more rapidly, but enough time is devoted to it to enable the student to grasp the different tendencies of the period. Lectures and assigned reading.

First semester; three hours a week. Elective for Sophomores, Juniors, and Seniors.

5. *History of Philosophy and Ethics*

Continuation of 4. Study of Modern Philosophy from Descartes to Hegel. As time permits, post-Hegelian tendencies are indicated and the present status of ethical and philosophical inquiry outlined. Lectures and essays. In connection with the lectures, students are required to read selections from the works of the authors studied.

Second semester; three hours a week. Elective for Sophomores, Juniors, and Seniors.

6. *Kant*

This course is designed to acquaint the student with the significance of Kant's system for a theory of knowledge. A detailed study of the Critique of Pure Reason will be undertaken. References to the Critique of Practical Reason and the Critique of

Judgment will be made from time to time so as to give the student a just appreciation of the system as a whole.

First semester; three hours a week. Elective for all students who have had 4 and 5.

7. *Studies in Contemporary Epistemology*

This course is designed to introduce the student to current discussions in logical theory. Such contemporary theories as Absolutism, Realism, and Pragmatism will be critically examined, the aim of the criticisms being constructive. The student will find 6 a valuable introduction to this course.

Second semester; three hours a week. Elective for students who have had 4 and 5.

8. *Systematic Ethics*

This course is devoted to a study of the principal types of ethical theory. The ethical writings of Kant, Bentham, Mill, Spencer, and Green will be critically examined. The aim of the course is the formulation of a satisfactory science of the ethical life.

First semester; three hours a week. Elective for Juniors and Seniors. (To be given 1911–1912.)

9. *Metaphysics*

Introductory course to the problems of philosophy. Designed to aid the student in appreciating the nature and bearings of metaphysical problems; to acquaint him with some of the answers that have been given to them; and to encourage in him a spirit of independent thought in the light of these answers. Lectures and parallel reading, with occasional summaries and essays.

Second semester; three hours a week. Elective for Juniors and Seniors. (To be given 1911–1912.)

10. *Studies in the Philosophy of Religion*

It is the aim of this course to study the development of religion and to work out its philosophical significance. The problem of the course will be concerning the ultimate basis and meaning of religion as an outgrowth of the development, and the expression of the life, of the human race. The attitude of various thinkers to this problem will also be investigated.

First semester; three hours a week. Open only to students who have had 4 and 5, or equivalents. (To be given 1911–1912.)

11. *Studies in Philosophical Theories of the State*

This course will be devoted to a consideration of the various theories of the State that have arisen in the course of the development of philosophical thought. On the basis of the study of these theories, the questions concerning the origin, nature, and ultimate significance of the State will be dealt with. Though this does not aim to be a course either in Political Science or in Sociology, it may offer the student a point of view from which economic and social problems can be attacked.

First semester; three hours a week. Open to students who have had 4 and 5.

XIII. PHYSICS

Professor Bryant

The course in General Physics, extending through one College year, begins with a thorough discussion of the principles of statics and dynamics, which is followed by investigations of sound and light, the phenomena of heat, the laws of static and current electricity and of magnetism. The method combines recitations, lectures illustrated with class-room experiments, and the solution of numerous problems illustrating the principles discussed.

The course in Laboratory Physics, continuing the subject through a second College year, enables the student to verify for himself by experiments in the physical laboratory the principles studied in the preceding course, and to acquire facility in the manipulation of apparatus and in the interpretation of results. A large part of the second half of this course is devoted to measurements in electricity.

A complete record of every experiment, giving the apparatus used, the measurements taken, and the results obtained, is required of every student taking

the course. Frequent lectures and quizzes are introduced to insure a thorough understanding of the principles which underlie the different experiments.

1. *General Physics*

Fundamental principles of kinematics; simple harmonic motion; inertia; gravitation; work and energy; elasticity; properties of liquids and gases; waves; sound; theory of heat; calorimetry; transference of heat; thermal expansion; change of state; nature of heat.

First semester; three hours a week. Elective for Sophomores in the Classical Course; required for Freshmen in the Scientific Course and elective for Freshmen in the Pedagogical Course.

2. *General Physics*

A continuation of 1. Magnetism; the earth's magnetic field; magnetic induction; electrostatic induction, potential, and capacity; production of electric currents; electromotive force; electrical resistance; measurement of current; chemical, heating, and magnetic effects of the electric current. Light: reflection, refraction, interference, diffraction and polarization of light waves, and spectrum analysis.

Second semester; three hours a week. Elective for Sophomores in the Classical Course; required for Freshmen in the Scientific Course and elective for Freshmen in the Pedagogical Course.

3. *Physical Measurements*

Elementary theory and practice of physical manipulation. Laboratory work in the measurements of length, mass, time, velocity, linear and angular acceleration; the verification of the laws of equilibrium of forces; the determination of coefficients of elasticity; the density of solids, liquids, and gases; experiments in sound.

First semester; three periods of two hours each a week. Elective for students who have completed 1 and 2, and Mathematics 3. Laboratory fee, $5.

4. *Physical Measurements*

A continuation of 3. The student is expected to have acquired such facility in the manipulation of apparatus and such ability to grasp the laboratory method of ascertaining physical laws as will

enable him to perform accurately and intelligently the more difficult experiments in heat, light, electricity, and magnetism. Measurements are made of thermal expansion, specific heat, latent heats of fusion and of evaporization. In electricity, fields of force, electric resistance, electromotive forces, and strengths of current are measured. The laws of reflection and refraction of light waves, the formation of images by mirrors and lenses are studied, and indices of refraction and lengths of light waves are measured.

Second semester; three periods of two hours each a week. Elective for students who have completed 3. Laboratory fee, $5.

XIV. POLITICAL AND SOCIAL SCIENCE

Professor Howard

Assistant Professor White

Mr. White

The study of Political Science, including the Science of Government, Economics, and Jurisprudence, appeals to three classes of students: those who pursue it for its essential part in a liberal education, those who would pay special attention to preparation for citizenship and business life, and those who desire foundational studies in Jurisprudence with a view to the subsequent study of Law. The studies here outlined, and those in the related Department of History, have been arranged with reference to the needs of each of these classes.

It will be noted that, in addition to the usual courses in Constitutional and International Law, provision is made for a year's study of Blackstone's Commentaries on the Common Law, and also for the study of Contracts and Commercial Law, Roman Law, and American Jurisprudence. Taken together,

these subjects constitute the equivalent of a year's work in a law school, and arrangements have been made with leading law schools for the allowance of credit for them toward the work required for the degree of Bachelor of Laws.

1. *Political Institutions*

Elements of historical and practical politics. The philosophy and historic development of government. An examination of ancient and modern governments, designed to lay a foundation for the subsequent study of political science and law.

First semester; three hours a week. Elective for Juniors. Mr. White.

2. *Political Economy*

Production, exchange, distribution, and consumption. The general principles of economic science. Recitations, lectures, and discussions.

First semester; three hours a week. Required of Seniors. Professor Howard.

3. *Political Economy*

Study of present economic questions, such as money, bimetalism, banking, taxation, labor, socialism, coöperation, the tariff and tariff history, transportation, trusts, etc. Recitations, lectures, and library work.

Second semester; three hours a week. Elective for Seniors. Professor Howard.

4. *Constitutional Law*

An advanced course in Constitutional Law. While this is primarily a professional course, yet the non-professional student will find both profit and mental training in following it. It deals largely with those fundamental principles of our organic law upon which rest the rights of life, liberty, and property.

First semester; three hours a week. Elective for Seniors. Professor Howard.

5. *International Law*

The history and general growth and development of International Law. General principles; study of treaties and celebrated cases;

reading of diplomatic correspondence in international controversies; progress in international arbitration; modern usage in war on land and sea; discussion of new problems. Recitations and library work.

Second semester; three hours a week. Required of all Seniors. Professor Howard.

6, 7. *Elementary Law*

A study of Blackstone's Commentaries on the Common Law. The fundamental principles of the elementary law; definitions; selected topics most useful to the American student of law.

First and second semesters; three hours a week. Elective for Juniors. Professor Howard.

8. *Contracts and Commercial Law*

A course largely professional on the essentials and structure of contracts and the nature and legal effect of bills, notes, and commercial law.

First and second semesters; three hours a week. Elective for Seniors. Professor Howard.

9. *Roman Law*

An introduction to the science of Jurisprudence, designed to familiarize the student with its literature and terminology. Examination of the Institutes of Justinian.

Second semester; three hours a week. Alternating with 10. Elective for Juniors and Seniors. (To be given in 1910.) Professor Howard.

10. *American Jurisprudence*

Nature and authority of law; status; public and municipal corporations; private corporations; rights, duties, wrongs, and remedies; interpretation of law; courts; fictions and presumptions.

Second semester; three hours a week. Alternating with 9. Elective for Juniors and Seniors. (To be given in 1911.) Professor Howard.

11. *Sociology*

A study of race characteristics, heredity, environment, subjective and objective regeneration, education, pauperism, defectives and degenerates, crime and its punishment, hospitals, almshouses, and prisons. Lectures and readings.

Second semester; three hours a week. Elective for Seniors. Professor Howard.

12. *Charities and Corrections*

A study of poverty and crime, their causes, prevention, and cure; and the agencies, public and private, which deal with defectives, dependents, and delinquents. A historical, descriptive, statistical study. Discussion, papers on special topics, lectures. Warner: "American Charities." (Revised Edition), Devine: "Misery and Its Causes." Parmelee: "Anthropology and Sociology in Relation to Criminal Procedure."

First semester; three hours a week. Elective for Junior and Senior women. Miss White.

13. *Social Psychology*

A study of society, the causes producing social planes, and the forces which make for their maintenance. Mob mind. Convention. Fashion. Public opinion. Ross: "Social Control," "Social Psychology." MacDougall: "Introduction to Social Psychology."

Second semester; three hours a week. Elective for Junior and Senior women. Miss White.

14. *General Sociology*

The theory of social activities and institutions. Historical and descriptive. Lectures, discussion, papers on assigned topics, reports on the general literature of the subject. Giddings: "Readings." Ross: "Foundations of Sociology." Cooley: "Social Organization."

First semester; three hours a week. Elective for Senior women. Miss White.

15. *Applied Sociology*

A study of constructive programs of social adjustment according to sociological principles. Patten: "New Basis of Civilization." Ross: "Sin and Society." Ward: "Applied Sociology." Carver: "Sociology and Social Progress."

Second semester; three hours a week. Elective for Senior women. Miss White.

ADMISSION

PREPARATION FOR COLLEGE

Students, teachers, and parents are advised to study the requirements for admission to College early in the preparatory course. Much time may be saved, and the course in College be made much more satisfactory, if pupils will prepare themselves thoroughly in the subjects which are the groundwork of a College education, and not scatter their energy over subjects which are of no particular value as preparation for College work. There can be no substitutes for thorough training in English, and in Algebra and Geometry. It is believed that for the ordinary student no study is more valuable than the Latin language, and as a foundation for general culture, as well as for advanced work in literature and science, four years of preparatory Latin, followed by a year or more in College, are earnestly recommended. Although Greek may be begun in College, the loss to the student who does not offer it for admission is greater than is often imagined, and the student who would devote special attention to literature, history, or philosophy is advised to fit himself in the language which is at the root of all modern culture.

METHODS OF ADMISSION

Admission to College may be gained by either of three methods:

1. By examination. Examination in all subjects for admission will be held at Middlebury, Thursday and Friday of Commencement week, and during the opening week of the first semester. A schedule may be obtained from the Secretary of the Faculty.

2. By certificate of the College Entrance Examination Board or the Regents of the State of New York. All applications for the Board examinations, which will be held June 20–25, 1910, must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, and must be made upon a blank form to be obtained from the Secretary of the Board upon application. The examination fee is $5.00 for all candidates examined at points in the United States and Canada.

3. By certificate from the Principal of the High School or Academy at which the student has prepared. Blank certificates, prepared by the College, will be mailed upon application.

A student admitted upon certificate is regarded as on probation the first year, and will be dropped at any time if he is manifestly incompetent to do the required work.

REQUIREMENTS FOR ADMISSION

For admission to any course, fourteen points, or admission credits, are required. A point is a preparatory subject pursued one year with five recitation periods a week. Certain points in each course are required; the remainder of the fourteen may be made up from the list of options. The Classical and Pedagogical Courses only are open to women.

The required and optional subjects are indicated below.

FOR THE CLASSICAL[1] AND PEDAGOGICAL COURSES

REQUIRED POINTS	
Latin	4
English	3
Algebra	1½
Geometry	1
Total required points	9½

OPTIONAL POINTS[2]

(Any four and one-half)

Greek	3
German	2
French	2
Greek History	½
Roman History	½
Mediaeval European History	½
Modern European History	½
English History	½
American History	½
Civics	½
Solid Geometry	½
Physics	½ or 1
Chemistry	1
Botany	½ or 1
Physiology	½
Zoology	½
Physical Geography	½
Astronomy	½

[1]Including that heretofore called the Latin-Scientific.

[2]For the Classical and Pedagogical Courses, Greek, German, or French must be presented, in addition to Latin.

FOR THE SCIENTIFIC COURSE

REQUIRED POINTS	
English	3
German or French	2
Algebra	1½
Geometry	1
Total required points	7½

OPTIONAL POINTS

(Any six and one-half)

Latin	2, 3, or 4
German or French	2
Greek History	½
Roman History	½
Mediaeval European History	½
Modern European History	½
English History	½
American History	½
Civics	½
Solid Geometry	½
Physics	½ or 1
Chemistry	1
Botany	½ or 1
Physiology	½
Zoology	½
Physical Geography	½
Astronomy	½

Equivalents for some of the above subjects, in either course, may be allowed in particular cases. Students slightly deficient in the total number of

points required may be admitted on condition. Such conditions may be made up either by special examination before the beginning of the Sophomore year or by successful completion of additional courses in the first two years of College. The specific requirements in the several subjects named above are outlined in the following paragraphs.

DEFINITION OF ADMISSION POINTS

Latin:—four points required for admission to the Classical Course; two, three, or four elective for admission to the Scientific Course.

Caesar's *Gallic War*, Books I-III, and 50 additional pages of Caesar, Nepos, Eutropius, or other easy Latin.

Cicero's *Orations against Catiline* and the *Manilian Law*, and 12 additional pages of Cicero.

Vergil's *Aeneid*, Books I-V, and 900 additional lines of Vergil or Ovid.

Latin Composition (Collar's *Practical Latin Composition*, Part I or II, or Jones's *Latin Composition*, Chapters I to XXXIV, or Mather and Wheeler's will indicate the amount required).

The requirement in Latin recommended by the Commission of Colleges in New England on Entrance Examinations is as follows, and may be substituted for the above by those who take the examination at the College. The Elementary and the Advanced portions may be taken together, or, if it is found desirable, in different years:

I. ELEMENTARY

The Elementary Examination will be adapted to the proficiency of those who have studied Latin in a systematic course of five

lessons a week, extending through at least *three* school years. It will consist of two parts (which, however, cannot be taken separately):

(*a*) The translation at sight of simple Latin prose and verse.

(*b*) A thorough examination on Cicero's *Orations against Catiline* II, III, and IV, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist in part of writing simple Latin prose, involving the use of such words, constructions, and idioms only, as occur in the speeches prescribed.

II. ADVANCED

The Advanced Examinations will be adapted to the proficiency of those who have studied Latin in a systematic course of five lessons a week, extending through at least *four* school years. The examinations may be taken separately:

1. The translation at sight of passages of Latin prose and verse, with questions on ordinary forms, constructions, and idioms, and on prosody.

2. An examination consisting of translations and questions on the subject-matter of Vergil's *Aeneid*, Books I-V.

3. The translation into Latin prose of a passage of connected English narrative. The passage set for translation will be based on some portion of the Latin prose works usually read in preparation for College, and will be limited to the subject-matter of those works.

Greek:—three points, optional.

Xenophon's *Anabasis*, Books I-III, and 35 additional pages of Attic prose.

Homer's *Iliad*, Books I and II, 1-493, and 450 additional lines of Homer.

Greek Composition (Woodruff's or Pearson's will indicate the amount required).

The requirement in Greek recommended by the Commission of Colleges in New England on Entrance

Examinations is as follows, and may be substituted for the above by those who take the examination at the College. The Elementary and the Advanced portions may be taken together, or, if it is found desirable, in different years:

I. ELEMENTARY

The Elementary Examination will be adapted to the proficiency of those who have studied Greek in a systematic course of five exercises a week, extending through at least *two* school years. It will consist of two parts (which, however, cannot be taken separately):

(*a*) The translation at sight of passages of simple Attic prose.

(*b*) A thorough examination on Xenophon's *Anabasis*, Book II, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist, in part, of writing simple Attic prose, involving the use of such words, constructions, and idioms only, as occur in the portion of Xenophon prescribed.

II. ADVANCED

The Advanced Examinations will be adapted to the proficiency of those who have studied Greek in a systematic course of five exercises a week, extending through at least *three* school years. The examinations may be taken separately.

1. The translation at sight of passages of Attic prose and of Homer; with questions on ordinary forms, constructions, and idioms, and on prosody.

2. An examination consisting of translation and questions on the subject-matter of Homer's *Iliad*, Books I and II, 1–493.

3. The translation into Attic prose of a passage of connected English narrative. The passage set for translation will be based on some portion of the Greek prose works usually read in preparation for College, and will be limited to the subject-matter of those works.

German:—2 points, optional.

During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the model auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, second, to state his knowledge correctly in the technical language of grammar.

An additional point in German will be accepted.

French:—2 points, optional.

During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns and pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

An additional point in French will be accepted.

English:—three points. The requirements recommended by the Commission of Colleges in New England on Admission Examinations.

NOTE—No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs.

1. *Reading and Practice*

A limited number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of the examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidates from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination for 1910–11 are:

GROUP 1 (two books to be selected)

Shakespeare: *As You Like It*, *Henry V.*, *Julius Caesar*, *The Merchant of Venice*, and *Twelfth Night*.

GROUP 2 (one book to be selected)

Bacon: *Essays;* Bunyan: *The Pilgrim's Progress*, Part 1; *The Sir Roger de Coverley Papers* in the *Spectator;* Franklin: *Autobiography*.

GROUP 3 (one book to be selected)

Chaucer: *Prologue;* Selections from Spenser's *Faerie Queene;* Pope: *The Rape of the Lock;* Goldsmith: *The Deserted Village;* Palgrave: *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.

GROUP 4 (two books to be selected)

Goldsmith: *The Vicar of Wakefield;* Scott: *Ivanhoe* and *Quentin Durward;* Hawthorne: *The House of the Seven Gables;* Thackeray: *Henry Esmond;* Mrs. Gaskell: *Cranford;* Dickens: *A Tale of Two Cities;* George Eliot: *Silas Marner;* Blackmore: *Lorna Doone*.

GROUP 5 (two books to be selected)

Irving: *Sketch Book;* Lamb: *Essays of Elia;* De Quincey: *Joan of Arc* and *The English Mail-Coach;* Carlyle: *Heroes and Hero-Worship;* Emerson: *Essays* (selected); Ruskin: *Sesame and Lilies.*

GROUP 6 (two books to be selected)

Coleridge: *The Ancient Mariner;* Scott: *The Lady of the Lake;* Byron: *Mazeppa* and *The Prisoner of Chillon;* Palgrave: *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley; Macaulay: *Lays of Ancient Rome;* Poe: *Poems;* Lowell: *The Vision of Sir Launfal;* Arnold: *Sohrab and Rustum;* Longfellow: *The Courtship of Miles Standish;* Tennyson: *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning: *Selections.*

2. *Study and Practice*

This part of the examination presupposes a more careful study of each of the works named below. The examination will be upon subject-matter, form, and structure, and will also test the candidate's ability to express his knowledge with clearness and accuracy. The books set for this part of the examination for 1910–1911 are: Shakespeare: *Macbeth;* Milton: *Lycidas, Comus, L'Allegro,* and *Il Penseroso;* Burke: *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay: *Life of Johnson,* or Carlyle: *Essay on Burns.*

History:—three points, optional.

1. *Greek History*—one-half point.
The history of Greece to the death of Alexander.

2. *Roman History*—one-half point.
The history of Rome through the reigns of the Antonines.

3. *Mediaeval European History*—one-half point.
To the fall of Constantinople.

4. *Modern European History*—one-half point.
From the fall of Constantinople.

5. *English History*—one-half point.

6. *American History*—one-half point.

Preparation in History will be given credit upon the basis of time devoted to each branch of the subject, rather than upon the amount of ground covered. The amounts indicated are believed to be a fair measure of one-half year's work. The training in History should require comparison and the use of judgment on the pupil's part, rather than the mere use of memory. The use of good text-books, collateral reading, practice in writing, and accurate geographical knowledge are essential.

Civics:—one-half point, optional. A half-year's study in the principles, methods, and usages of American government.

Mathematics:—three points, two and one-half points required.

a. *Algebra:*—one and one-half points.

(1) To Quadratics—one point.

The four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions, ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative.

(2) Quadratic Equations, Binomial Theorem, and Progressions—one-half point.

Simple cases of equations with one or more unknown quantities that can be solved by the methods of linear or quadratic equations.

Problems depending upon quadratic equations.

The binomial theorem for positive integral exponents.

The formulas for the nth term and the sum of the terms of arithmetic and geometric progressions, with applications.

b. *Plane Geometry*—one point.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle.

The solution of numerous original exercises, including loci problems.

Application to the mensuration of line and plane surfaces.

c. *Solid Geometry*—one-half point, optional.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

The solution of numerous original exercises, including loci problems.

Application to the mensuration of surface and solids.

Physics:—one point, optional. The candidate's preparation in Physics should include: (1) the study of at least one standard text-book, supplemented by the use of many and varied numerical problems, to the end that a pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics; (2) instruction, by lecture-table demonstrations, upon the general principles involved in the pupil's laboratory investigations; (3) individual laboratory work comprising at least thirty-five exercises. Every candidate must present as a part of the examination a note-book, certified by the teacher, and containing in the candidate's own language a description of his laboratory exercises, the steps, observations, and results of each exercise being carefully recorded. The note-book must afford clear evidence of the pupil's ability to make accurate observations and to draw correct conclusions. Students who have not had the individual laboratory work may receive credit for one-half point.

Chemistry:—one point, optional. The preparation in Chemistry should include individual laboratory work, comprising at least forty exercises selected from a list of sixty or more; instruction by lecture-

table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations; the study of at least one standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of Elementary Chemistry. Students who have not had the individual laboratory work may receive credit for one-half point.

Botany:—one point, optional. The morphology and physiology of seed and seedling, stem, root, leaf, flower, and fruit as may be had from a half-year's study of a good text, together with the preparation of a note-book containing accurate laboratory studies on the morphology of the above organs; and an additional half-year's study on the morphology of cryptogams. One-half point will be credited for either of these courses offered independently.

Physiology:—one-half point, optional. The preparation in Physiology should include a study of the nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. A note-book with careful outline drawings of the chief structures studied anatomically, together with explanations of these drawings, and the study of a good text-book are essential.

Zoology:—one-half point, optional. A half-year's work in general natural history of common animal types; physiology of types studied and comparison of processes of animals and plants; classification of

animals into phyla and leading classes, and the great characteristics of these groups; preparation of a note-book containing accurate laboratory studies of types, such as protozoan, sponge, hydra, worm, clam, insect, frog.

Physical Geography, or Physiography:—one-half point, optional. One-half year in the study of a good modern text-book, together with weekly laboratory and field exercises.

Astronomy:—one-half point, optional. A half-year's work, including the following among the chief topics: the Celestial Sphere; designation of the directions of a heavenly body. The Earth; its axial rotation; time, latitude, longitude; its orbital revolution; precession, aberration, the seasons, equation of time, the calendar. The Moon; its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses. The Sun; its rotation, physical characteristics, light, and heat. The Planets; apparent and real motions, individual characteristics. The Law of Gravitation; its control of the solar system; the tides. Comets and Meteors; their nature and motions. The Stars; designation, classification by constellations, motions, distance, brightness, variables. Stellar Systems; clusters, nebulae; the stellar universe, cosmogony.

ADMISSION TO ADVANCED STANDING

A candidate for admission to advanced standing who comes from an approved institution of collegiate rank may receive credit, without examination, for work done at such institution, provided he present a detailed statement of his previous work. This

statement should include a full list of preparatory subjects accepted for admission by the institution previously attended, and also a list of the subjects taken there for which credit has been attained. A letter of honorable dismissal from the institution last attended must also be presented.

Every other candidate for admission to advanced standing must first satisfy the entrance requirements of the course which he desires to enter. He may then receive credit for any subject included in the curriculum of that course in which he can pass a satisfactory examination. Such students, not coming from other Colleges, will be required to pay a fee of $5 if admitted to the Sophomore class, or $10 if admitted to higher rank.

Credit toward a degree for work done outside of College will be allowed on the applicant's passing an examination in the course for which he wishes credit.

GENERAL INFORMATION

SUMMER SESSION

Professor Collins, Director

In the summer of 1909, a Summer Session was held in connection with the Department of Pedagogy, then recently established. A Faculty of 23 instructors was secured, and 40 courses were offered in a wide variety of topics, appealing to different classes of students. The success of the session, in substantial results attained no less than in the enjoyment of all participating, indicates that Middlebury is well advantaged for successful summer work. The attendance in 1909 numbered 86, of whom 58 were teachers, and of these 45 were teachers in Vermont schools.

The second annual Summer Session will be held July 5 to August 12, 1910. The College libraries, laboratories, and dormitories will be open. Courses will be offered in as many subjects as at the first session, and will be grouped in the following divisions:

A. College Extension Courses and Lectures.
B. Courses leading to the degrees of A.B. and B.S.
C. Courses leading to the degrees of A.M. and M.S.

No examinations will be required for admission, and properly qualified students may pursue studies in any group or groups, even if it is not desired to count them for degrees. The Summer Session makes its strongest appeal to the following classes of workers:

1. Teachers, especially high school teachers, principals, and superintendents, who wish intensive professional study, special study along some particular line, or preparation for advancement in supervisory work.

2. College and high school students who desire to anticipate courses, make up deficiencies, or broaden and supplement their regular College work.

3. Clergymen, Sunday School workers, and others, who wish to study social problems, educational conditions, and methods of improving institutional work, or who desire to pursue connected study in a particular line of investigation.

The registration fee will be $5, required from all; tuition $10, for one or more courses (free to Vermont teachers and clergymen). Residents of Addison County may be admitted to one or more courses, without registration fee, at $5 per course. In laboratory courses a small additional fee will be charged. Board and rooms may be had in the College buildings and in the village at $4.50 to $6 a week.

A list of the students in attendance upon the session of 1909 will be found on pages 122-124 of this catalogue. The following courses were given at the Summer Session of 1909:

1. School Management. Mr. Willis I. Twichell.
2. Education in Modern Times. Assistant Professor Raymond McFarland.
3. Methods of Teaching. Mr. McFarland.
4. Introductory Psychology. Dr. G. Watts Cunningham.
5. Introduction to Philosophical Problems. Dr. Cunningham.
6. Ethics: A Critical Examination of Typical Modern Theories. Professor James Ten Broeke.
7. Introduction to Christian Doctrine. Professor Ten Broeke.
8. Homer: Readings from the Iliad and Odyssey. Professor Edwin H. Higley.
9. New Testament Greek. Dr. Charles E. Hesselgrave.

10. Vergil: Professor Myron R. Sanford.
11. Roman Archaeology. Professor Sanford.
12. Vergil for Preparatory Students. Mr. Herbert E. Boyce.
13. The Principles of Prose Style. Professor Charles B. Wright.
14. Methods in Teaching English. Assistant Professor Frank W. Cady.
15. German Grammar and Composition. Professor Higley.
16. Intermediate German Prose. Professor Higley.
17. Methods of Teaching Preparatory French. Mr. Martin Bähler.
18. Intermediate French. Mr. Bähler.
19. Elementary Spanish. Miss Maud M. Tucker.
20. The Teaching of History. Assistant Professor Archibald D. Wetherell.
21. History Seminar. Assistant Professor Wetherell.
22. Algebra. Mr. Garfield M. Weld.
23. Surveying. Mr. Weld.
24. A Review of High School Mathematics. Mr. George S. Wright.
25. A Model High School Course in Physics. Mr. Weld.
26. Conference in Botany and Zoölogy. Professor Edward A. Burt.
27. A Model High School Course in Chemistry. Mr. Silas A. Lottridge.
28. Graduate Work in Chemistry. Professor W. W. McGilton.
29. The New Testament: A Study in Historical Literature and Religious Appreciation. Dr. Hesselgrave.
30. The Bible as English Literature. Dr. Hesselgrave.
31. Preparation for Bible Study. Dr. Hesselgrave.
32. Beginning Hebrew. Dr. Hesselgrave.
33. Hebrew Reading and Lectures. Dr. Hesselgrave.
34. Anatomy in Relation to Physical Education. Professor Harry B. Boice.
35. Health and Disease. Dr. Stanton S. Eddy.

36. Preparation of Foods; Cooking. Miss Marion Treat.
37. Household Economics. Miss Treat.
38. Illustrative Drawing. Miss Anne May Pierce.
39. Metal Craft. Miss Pierce.
40. Pottery and Plastic Art. Miss Pierce.

Full information as to the courses to be offered, the instructors who will be in attendance, arrangements for rooms and board, special lectures, excursions, etc., will be published in the February number of the College bulletin. Application for this bulletin should be made to the Director, to whom all inquiries concerning the Summer Session should be addressed.

DEGREES IN COURSE

The degree of Bachelor of Arts is conferred on those students who have met the requirements of the Classical or Pedagogical Course of study.

The degree of Bachelor of Science is conferred on those students who have met the requirements of the Scientific Course of study.

The degrees of Master of Arts and Master of Science are conferred under the following regulations:

1. The candidate must have a baccalaureate degree from this College, or from one having an equivalent curriculum.

2. Non-resident students may register at any time during the year; resident students must register during the first week of either semester, or during the first week of the Summer Session. A renewal of all existing registrations must be made at the beginning of each College year.

3. At the time of registration, the candidate, after conference with the instructor or instructors interested, shall outline the work intended and the studies desired, and present such outline to the

Committee on Graduate Instruction for its approval. The courses selected should be well co-ordinated. They may be from one or several departments of the College and include such additional work as may be outlined by the instructors under whom work is desired.

4. To obtain the degree either of Master of Arts or of Master of Science, thirty credits, representing one year's resident work (September to June), will be necessary. Credits acquired in the graduate courses of the summer or Saturday sessions may be counted. The degrees may also be obtained *in absentia* with the limitation that in case of complete non-residence they will not be conferred before the third Commencement after registration.

5. Graduates of Middlebury College who have to their credit work done in undergraduate years, and not counted for a baccalaureate degree, may count such credits toward an advanced degree, provided, however, that the work is approved by the Committee on Graduate Instruction, and has been completed with a grade of at least 80 per cent.

6. No credits counted in conferring a first degree at Middlebury College, or elsewhere, shall be accepted for a second degree.

7. Work done *in absentia* must be completed within five years, unless this period is extended by vote of the Faculty.

8. All candidates must present themselves for a final examination and receive the degree in person.

9. Resident candidates will be charged regular tuition fees; non-resident candidates will be charged a registration fee of $10 annually. There is no additional fee either for examinations or for diploma.

EXAMINATIONS

All classes are examined in the studies pursued, at the close either of the semester or of the study. If a student, for any cause whatever, has been absent from 10 per cent., or more, of the recitations of the study, he will be required to take a preliminary examination before the time of the regular examination.

A student who fails to pass an examination at the close of the first semester, and is thereby conditioned, will be given an opportunity to take another examination at the close of the second semester, and again at the opening of the College year. A student who is conditioned at the close of the second semester may take an examination at the opening of the College year, and again at the close of the first semester. No other opportunities for the removal of conditions will be given, except that a Senior may take examinations for deficiencies or conditions on the Saturday preceding Commencement.

Any student failing to make up any condition as provided for above will be required to repeat the subject with the following class, even though, from conflict of hours, or any other cause, it necessitates for him the temporary omission of some of the regular work of his class.

Any student who is obliged by the operation of the foregoing rule to repeat with the following class subjects amounting to one-half, or more, of the regular hours of the term will be ranked as a member of that class.

A conditioned student who, because of the omission of the subject from the curriculum for the year, is prevented from repeating a study in which he is due shall, at the beginning of the second semester after his failure, elect another study in its place.

No student will be given Sophomore rank until he has made up his entrance conditions.

No student who is conditioned in more than one study will be excused from College exercises for the purpose of playing on an athletic team.

RECORD OF SCHOLARSHIP

At the close of a study, any student who desires it may receive from the Secretary of the Faculty a general statement of his rank in that study, based upon his term work and examination. If he has attained 90 per cent. or above, his rank is reported as A, or excellent; if between 80 and 90 per cent., as B, or good; if between 70 and 80 per cent., as C, or fair; if between 60 and 70 per cent., as D; if below 60 per cent., the student is conditioned in that study. These reports are also given to parents upon request from the Registrar.

HONORARY APPOINTMENTS

The Faculty, under the direction of the Corporation, give to the first third of each department of each class, on the basis of scholarship, honorary appointments for Commencement. The valedictory and salutatory appointments are of equal rank, the former being given to the leader among the men and the latter to the leader among the women. Those receiving honorary appointments for Commencement are eligible for election to the Phi Beta Kappa Society, provided that they have attained an average rank, for the entire course, of eighty-five per cent.

SPECIAL HONORS

To promote and encourage special investigation in the various departments of the curriculum, the Faculty have established a system of honors. These

are divided into two classes, Honors and Highest Honors, and are awarded on the following conditions:

1. The attainment of 80 per cent. for Honors, and 90 per cent. for Highest Honors, as an average rank in studies of the department in which the honors are sought.

2. The performance of at least 200 hours of satisfactory additional work assigned by the Professor, which must be of a superior quality for the attainment of Highest Honors.

3. The preliminary payment of $5 a semester when laboratory work is involved.

These honors will be printed on the Commencement program and in the next annual catalogue, and will be certified to, when requested, by a written certificate from the President and the Professor of the department, stating the nature and quality of the extra work done.

PRIZES

For the academic years 1909–10, 1910-11, and 1911–12, by gift for this specific purpose from a friend, prizes are offered in the Departments of History and Political Science for men, and in the Department of English for women. The prizes will be two in number in each class, the first $40, and the second $20: i.e., first and second prizes of $40 and $20 respectively, for men in History and Political Science, and the same amounts for women in English. These prizes will be awarded at the close of the Junior year; for the Class of 1911, the work of the Junior year only

will be the basis of award, for the Class of 1912 the work in Sophomore and Junior years, for the Class of 1913 the work of all three years.

By bequest of the Rev. Thomas A. Merrill, D. D., the College received the sum of fifteen hundred dollars, the interest of which is applied annually "for the encouragement and improvement of elocution." Doctor Merrill, a graduate of Dartmouth College in the Class of 1801, was for fifty years a resident of Middlebury and for thirty-seven years a pastor of its Congregational Church. For the Merrill Prizes not less than eight nor more than twelve competitors are appointed from the Sophomore class in such manner as the Faculty shall deem expedient. There are four awards, the first $25, the second $20, the third $15, and the fourth $10.

The Parker prizes are given to two of the four competitors in the Freshman class who are judged the best speakers; the first prize is $20, the second $10.

In the Latin Department, recognition is made of excellence in the work of the second semester of the Sophomore year, including the preparation of a notebook exhibiting the debt of English poetry to Horace, by the presentation to the two successful competitors of reproductions of works of classic art, selected by the head of the department.

THE EGBERT STARR LIBRARY

The Library of Middlebury College is older than the institution itself. Before the granting of the charter the benevolent and progressive citizens of the town had collected some 500 well-chosen volumes for the use of students. Volumes bearing the autographs of some of the founders are still on the library shelves.

In the early history of the College two flourishing student organizations, the Philomathesian and Philadelphian societies, founded libraries which were unusually extensive and valuable for the time, and many of their volumes are still among the treasures of the College. Great improvement in the Library was made during the administration of President Cyrus Hamlin (1880–1885), who removed the books from the chapel to the north division of Painter Hall, and opened all the shelves to the students.

The beautiful and convenient marble Library now occupied was erected by funds bequeathed by Mr. Egbert Starr, and dedicated during the Centennial Exercises of the College in July, 1900. The cost of the building was $50,000, to which was added $5,000 for its decoration and $5,000 for the purchase of books by the son of the donor, Dr. M. Allen Starr. The front of the building is entirely devoted to a large and convenient reference library, and the capacity of the stacks is 90,000 volumes. The entire Library now contains 34,800 volumes and is a depository of government publications. Students are granted free access to all the shelves. The building is open continuously through the working hours of the day and also evenings. The reference rooms contain a large number of reviews and magazines, and a reading room with daily and weekly papers is maintained in the south division of Painter Hall.

During the past year the appropriation for Library purposes was increased to $3,000 a year, and several gifts of money for additions to the Library were received, as well as a number of volumes by donation. A few students from the upper classes are given employment in the Library in part payment for their tuition.

THE WARNER SCIENCE HALL

The studies in the Departments of Physics, Biology, Geology, and Chemistry are pursued in the large and convenient Warner Science Hall, erected in 1901 through benefactions of Mr. Ezra J. Warner of the Class of 1861. The building is in memory of his father, the Honorable Joseph Warner, formerly a resident of Middlebury and a trustee of the College from 1850 to 1865.

The Department of Physics is located on the first floor, and comprises a main laboratory for student use with sufficient apparatus for two full years of study and investigation in Physical Science, a private laboratory for the instructor, and a physical lecture room.

The Departments of Biology and Geology occupy the second floor. Here are laboratories for the study of Geology, Comparative Botany, and Zoölogy, and the museums of geological and zoölogical specimens.

The third floor is devoted entirely to Chemistry. Convenient laboratories for qualitative and quantitative analysis, a private laboratory for the instructor, a dark room for photography, and a chemical lecture room are included in the equipment.

Advanced study and independent research are encouraged in each of the natural and physical sciences, and in the modern and well furnished laboratories of this building abundant opportunities are furnished to the student.

THE MUSEUM OF NATURAL HISTORY

Among the Professors of the College for many years have been men of marked ability in natural science, who have shared with the institution the

fruits of their researches. One of the earliest geological surveys of Vermont was conducted by Professor Charles B. Adams, who then occupied the chair of Natural History. He laid the foundation for the large collection of fossils representing the different geological formations. The work of Professor Henry M. Seely, long connected with the College, is in evidence in the large collections of fossils of the Champlain valley.

In Botany, the complete series of the flowering plants and ferns of the Champlain region, which was collected by President Brainerd, is especially notable. This herbarium is constantly increasing, and valuable additions have been made in recent years in the higher fungi and other cryptogamous plants gathered by Dr. Burt.

COLLEGE OFFICES

The office of the President is located on the third floor of the Chapel. The President may be seen from 11 to 12 A.M. each day except Sunday, and consultation by students on any subject of importance to them is cordially invited. When the President is out of town, the Senior Professor is in charge of the College and may be consulted with equal freedom. A catalogue of all graduates, former students, and friends of the College is kept in the office, and prompt notification of change of address is requested. The President's home is the large dwelling built for the purpose by President Kitchell and purchased for the College with funds contributed for the purpose by Hon. Joseph Battell, of the Class of 1823.

Dean Howard's office is in Painter Hall, middle division. Men desiring to be out of town while

College is in session should first secure permission of him. Excuses for absence should also be presented to the Dean.

The Dean of Women has her office on the fourth floor of the Chapel, where women may offer reasons for absence.

The office of the Registrar is in Painter Hall, middle division. All students, including incoming Freshmen, should register at the opening of the year, and the Registrar's office will be open on and after Monday, September 20, for this purpose.

The Treasurer of the College has his office in the National Bank of Middlebury, and may be seen during banking hours.

RELIGIOUS SERVICES

The exercises of each day, except Sunday, begin with religious services, which all students must attend.

They are also required to attend public worship on Sunday morning, at such churches as are decided upon by the students or their parents.

In a room in the Chapel the Young Men's Christian Association holds meetings on Tuesday evenings, and the Young Women's Christian Association on Thursday afternoons, to which the students are welcome.

The College is non-sectarian, but seeks to promote a healthful religious influence.

DORMITORIES

The College has two large stone dormitories, which were remodeled a few years ago and furnished

with bath-rooms, water-closets, steam heat, and electric light. Starr Hall has thirty-two suites, designed for two students each, consisting of study, bedroom, large enough for two single beds, and closets. The rooms assigned to students in Painter Hall are large and well lighted and ventilated. The charges for rooms in both dormitories are the same, and are exceedingly moderate: $30 a year per student when two occupy a room, and $60 when a room is occupied singly, including light and heat in each case. The rooms in both halls are unfurnished.

In assigning rooms, preference is given to students in College, in order of classes. A drawing for rooms for 1910–11 will be held June 10, 1910. Students now occupying rooms, and desiring to retain the same, may do so by depositing $5 advance payment on room rent with the Treasurer before June 10. Others desiring rooms for next year, including incoming students, may secure reservations by making the $5 advance deposit. Rooms not taken June 10 will be assigned to students applying later in order of application, irrespective of classes.

The dormitories will be ready for occupation by the students on the noon of the Monday preceding the opening of each term, and will be closed for all vacation periods on the noon of the first Saturday after the end of each term.

HAMLIN COMMONS

Table board is furnished to men at Hamlin Commons, a club conducted on the co-operative plan by the students under the supervision of the Faculty. The College owns the building, which is located just outside the Campus, and gives the use of it to the

students without cost. The food is plain, but abundant, and the cost is $3 a week. Payment is required each week, strictly in advance.

BATTELL COTTAGE

The College conducts a home for young women, located on the new Campus for women, at which about twenty-five young women can be accommodated at $5 and $6 a week each for room and board. Application may be made to Miss White, Dean of Women. Payment is expected monthly in advance, and may be made to Mrs. William Mills, matron.

EXPENSES

The location of the College in a small village in a frugal agricultural region favors economy, and by a resolute endeavor the expenses of students have been kept extremely moderate. The charges of the College are small, and the general expenses of students should not be large. The following table indicates the principal items:

Tuition	$80.00
Incidentals, library, reading room, gymnasium, etc	12.00
Room Rent in Starr or Painter Hall, including heat and light	30.00
Table Board for 37 weeks, at $3.00	111.00

In most of the elective courses in Chemistry, Biology, and Physics a laboratory fee of $5 a semester is charged, as specified in the announcements of the several courses.

The charges for room rent, heat, and light are on the supposition that two students occupy a room. Where a student rooms alone, the charge for rent, including heat and light, is $60 per year.

Bills for tuition and other charges are rendered in December and May of each College year, and are then payable. A student who does not make payment at the opening of the following year stands suspended until the account is settled.

The College charges are the same for men and women, but the cost of living in homes in the village is greater than in the College dormitories for men and the Hamlin Commons, so that the estimate for women should be about $1 a week greater than the above. Expenses for clothing, travelling, entertainments, etc., are not included.

SCHOLARSHIPS

The College has a generous number of student benefits, many of them given in early years at great self-sacrifice on the part of the donors. The income of these funds is expended exclusively in payment of the tuition, in whole or in part, of needy and deserving students of good deportment and application. When the number of students was much smaller, these funds allowed a somewhat more liberal bestowment of beneficiary aid than is now possible. It is not expected that those whose circumstances admit the full payment of College bills will apply for scholarship assistance. It is earnestly desired, however, that where need requires, those who might not otherwise be able to receive a College education will apply for aid from this source. The College

has a long record of special encouragement to those who are obliged to secure an education largely through their own efforts. Correspondence concerning scholarships should be directed to the President, who will furnish blanks for application.

Any scholarship may be forfeited at any time during the course through negligence or misconduct. When a student incurs more than one condition in any semester, the scholarship allowance for that semester is thereby forfeited.

Among the student benefits dispensed by the College are the following:

The Waldo Fund, established by Mrs. Catherine Waldo of Boston.

The Baldwin Fund, received from the estate of John C. Baldwin, Esq., of Orange, N. J. The Waldo and Baldwin Funds are used in cancelling College bills to the amount of $80 of each of twelve students whose scholarship, deportment, and necessities warrant such a benefaction.

The Warren Fund, applied in payment of College bills of those who are preparing for the Gospel Ministry.

The Fairbanks Scholarships, established by Thaddeus Fairbanks, Esq., of St. Johnsbury.

The Levi Parsons Scholarships, established by the Honorable Levi Parsons Morton of New York City.

The Daniel O. Morton Scholarship, established by the Honorable Levi Parsons Morton of New York City.

The Penfield Scholarship, established by Allen Penfield, Esq., of Burlington.

The Emma Willard Scholarship, established by the Emma Willard Association, for the benefit of deserving young women.

The Charles A. Field Scholarship, given to the village of Proctor, Vermont, "as a memorial of regard for Fletcher Dutton Proctor and of gratitude to him, and for courtesies received at the hands of other residents of said village."

The A. P. Stafford Fund, "to assist needy students from Wallingford to an education."

The Windham County Congregational Conference Scholarship.

STATE SCHOLARSHIPS

An annual appropriation from the State of Vermont pays to the amount of $80 annually "the tuition and incidental College charges of thirty students, one of whom shall be designated and appointed by each Senator in the General Assembly, such appointment to be made by such Senator from his respective county, provided any suitable candidate shall apply therefor, otherwise from any county in the State."

Any person prepared to enter College, desiring to take advantage of a State scholarship, should apply to one of the Senators of the county in which he resides, and the Senator may thereupon give him a certificate of appointment, which will cancel his tuition for two years. Should the Senators in the applicant's county already have made appointments, the student should immediately apply to the President of the College, as there may be a vacancy from some other county of which the applicant may avail himself.

Under this act, students of both sexes are eligible for appointment to a State scholarship. The same regulations as to forfeiture through misconduct

and incurring conditions apply to State scholarships as to student benefits owned by the College.

ASSOCIATED ALUMNI

The officers and committees of the Associated Alumni of the College for the year 1909–10 are: President, Homer L. Skeels, '98; first vice-president, Charles A. Adams, '95; second vice-president, Henry H. Seely, '94; third vice-president, John Barlow, '95; secretary and treasurer, Archibald D. Wetherell, '05. Alumni Day Committee: Joseph A. Peck, '98; Carroll B. Ross, '82; Bert L. Stafford, '01. Necrological Committee: Herbert E. Boyce, '00; Thomas E. Boyce, '76; Stanton S. Eddy, '94. Central Committee: Charles B. Wright; Thomas E. Boyce, '76; Duane L. Robinson, '03.

ALUMNI ASSOCIATIONS

Alumni Associations in New York and Boston hold annual meetings. The officers of the New York association for the year 1909–10 are: President, James F. McNaboe, '92; secretary, Percival Wilds, '02, 2 Rector Street. Executive Committee: Louis W. Severy, '00; Charles A. Voetsch, '02; Edwin W. Willcox, '04.

The officers of the Boston association for the year 1909–10 are: President, Edwin H. Higley, '68; secretary and treasurer, Miss Rena I. Bisbee, '00, Milford, Mass.

DEGREES CONFERRED IN 1909

HONORARY DEGREES

LL.D.

John Franklin Fort
Frank Charles Partridge, ex-'81
George Herbert Prouty
Richard Stanley Tuthill, '63

D.D.

George Wilson Crockett Hill

A.B., *out of course*

John Joseph Hassett, ex-'88

DEGREES IN COURSE

A.M.

Marguerite Harwood, '07
Gino Arthur Ratti, '07

A.B.

Carson Henry Beane
Eugene Joseph Berry
Claude Henry Carey
Warren Lewis Carpenter
James Anderson Chalmers
Rufus Crane
Ralph Benjamin DeLano
Frank Augustus Farnsworth
Wilmot Taylor Fiske
Harry LeRoy French
Ivan Drake Hagar
William Valla Hagar
Herbert McDonald Hall
Ross Charles Holt
Carl Sumner Martin
Edward Homer Martin, Jr.
John William McCormack
Arthur Wallace Peach
Daniel Jones Ricker
Sidney Wilbur Sanford
Harold Allen Severy
Donald Marsh Shewbrooks
Leonard Dow Smith
Ray Adams Stevens
Lyman Burt Tobin
Jay Bryan Viele
John Andrew Viele
Henry Spencer White

Oscar Julius Williams
Philip Anson Wright
Sophie Belle Anderson
Clara May Buffum
Caroline Howard Clark
Inez Clara Cook
Carrie Emeroy Damon
Cora May Derby
Edith Vera Fay
Winifred White Fiske
Fanny Maria Gates
Olive Elizabeth Getman
Susie Carrie Holmes
Hazel McLeod
Bertha Annie Munsey
Anna Barton Rust
Alice Bruce Sears
Bertha Octavia Stilson
Mabel Ella Wales
Margaret Maud Whitney

APPOINTMENTS AND AWARDS

COMMENCEMENT APPOINTMENTS

VALEDICTORY ADDRESSES

Warren Lewis Carpenter

SALUTATORY ADDRESSES

Bertha Octavia Stilson

HONORARY APPOINTMENTS

Warren Lewis Carpenter
John Andrew Viele
John William McCormack
Rufus Crane
Oscar Julius Williams
Philip Anson Wright
Ralph Benjamin Delano
William Valla Hagar
Carson Henry Beane
Harold Allen Severy
Bertha Octavia Stilson
Caroline Howard Clark
Hazel McLeod
Clara May Buffum
Anna Barton Rust
Inez Clara Cook

A.B. *magna cum laude*

Warren Lewis Carpenter
Bertha Octavia Stilson

A.B. *cum laude*

Rufus Crane
Ralph Benjamin Delano
John William McCormack
John Andrew Viele
Oscar Julius Williams
Clara May Buffum
Caroline Howard Clark
Inez Clara Cook
Hazel McLeod
Anna Barton Rust
Philip Anson Wright

HIGHEST HONORS IN CHEMISTRY

Claude Henry Carey
Harry LeRoy French
Ivan Drake Hagar
Sidney Wilbur Sanford
Philip Anson Wright

MEMBERS OF PHI BETA KAPPA

Warren Lewis Carpenter
Rufus Crane
Ralph Benjamin Delano
John William McCormack
John Andrew Viele
Oscar Julius Williams
Philip Anson Wright
Clara May Buffum
Caroline Howard Clark
Inez Clara Cook
Hazel McLeod
Anna Barton Rust
Bertha Octavia Stilson

MERRILL PRIZES

Class of 1910

First Prize—Edwin Sherwood Stowell Sunderland
Second Prize—Herbert Alfred Burnham
Third Prize—William Richmond
Fourth Prize—Harold Stuart Tuck

PARKER PRIZES

Class of 1911

First Prize—Arthur Burt King

Second Prize—Edward Lynch O'Neill

SOPHOMORE LATIN PRIZES

First and *Second Prizes* equally divided between Marion Adelaide Frizelle and Jennie Blanche McLellan.

FRESHMAN LATIN PRIZES

First Prize—Philip Sheridan Andrus

Second Prize—Edith Marjorie Bates

Third Prize—Mary Elizabeth Bresnehan

Fourth Prize—Hugh Olin Thayer

STUDENTS

GRADUATE STUDENTS

Warren E. Bristol, '06	*Beirût, Syria*
George Edwin Kimball, '06	*Oxford, Mass.*
Clara Vernice Lovett, '06	*Middlebury*
C. W. Porter-Shirley	*Caledonia, Queens Co., Nova Scotia*
H. Herbert Rice	*Danvers, Mass.*
James Leigh Richmond, '08	*Cornwall, Conn.*
Robert L. Thompson, '99	*Troy, N. Y.*
Irving Eugene Usher	*Bristol*

SATURDAY COURSES

Mary B. Eddy, A. B.	*Middlebury*
Josephine B. Emerson, A. B.	*Middlebury*
Bertha O. Stilson, A. B.	*Middlebury*
Frances H. Warner, A. B.	*Middlebury*

SENIORS—Class of 1910

James Lagrande Cadwell	*Fredonia, N. Y.*	10 P. H.
William Hoyt Carter	*Ferrisburg*	7 S. H.
Raymond Millard Coleman	*Chester*	22 Weybridge St.
Richard Aiken Currier	*Willsboro, N. Y.*	14 P. H.
George McMillan Darrow	*Middlebury*	3 Weybridge St.
Harry Allen Farrar	*Chester*	6 P. H.
Ray Lyle Fisher	*Middlebury*	Mr. A. N. Fisher's
Egbert Charles Hadley	*Middlebury*	7 Pleasant St.
Erwin Bruce Hallett	*Clyde, N. Y.*	D. K. E. House
Robert Fletcher Hunt	*New London, Conn.*	5 Washington St.
Harold Denio Leach	*Pawlet*	27 S. H.
Lyman Alton Morhous	*Ticonderoga, N. Y.*	10 S. H.
Charles Watson Murdock	*Crown Point, N. Y.*	16 P. H.
Harlan Sylvester Perrigo, Jr.	*Potsdam, N. Y.*	D. K. E. House
Melbourne Jabez Pond	*East Berkshire*	6 P. H.
Paul Dunton Ross	*West Rutland*	Chi Psi Lodge
Robert Child Ryder	*Middlebury*	34 South St.

George Edward Shaw	*Moriah Center, N. Y.*	18 P. H.
Frank Patrick John Shea	*Middlebury*	11 High St.
Herbert Emerson Worden	*Rye, N. Y.*	8 P. H.
Guy Maynard Wright	*Bristol, Conn.*	29 S. H.

JUNIORS—Class of 1911

John Milton Avery	*Middlebury*	125 Main St.
William Eric Blackmore Barnes	*Waverley, N. Y.*	Chi Psi Lodge
Wayne Cook Bosworth	*Bristol*	25 S. H.
Herbert Alfred Burnham	*Sutton*	25 S. H.
Albert Forsyth Burt	*Middlebury*	15 Weybridge St.
Walter Henry Cleary	*Lyndonville*	21 S. H.
Frederick Ames Coates	*Rouse's Point, N. Y.*	2 Franklin St.
Alvin William Coolidge	*East Jaffrey, N. H.*	12 P. H.
Russell Pease Dale	*Springfield, Mass.*	21 S. H.
William Hinds Darrow	*Middlebury*	3 Weybridge St.
Stephen Allen Doody	*Middlebury*	R. F. D. No. 5
Woodburn Prescott Harris	*Middlebury*	8 P. H.
George Reed Hemenway	*Manchester*	7 P. H.
Rollo Alvord Kilburn	*Pittsfield, Mass.*	22 S. H.
Edwin Thomas Maloney	*Whallonsburg, N. Y.*	14 P. H.
Alfred Martin	*St. Louis, Mo.*	8 S. H.
John William McConnell	*Valatie, N. Y.*	10 P. H.
Hiram Dunlap Moore	*Ludlow*	17 P. H.
Edward Martin Noyes	*West Salisbury*	22 S. H.
Ralph Frederick Palmer	*Bristol*	D. K. E. House
J. Gordon Peach	*Brattleboro*	31 S. H.
Amerigo Joseph Ratti	*Proctor*	16 P. H.
William Richmond	*Menands, N. Y.*	8 S. H.
Frank Canedy Ryder	*Hinesburg*	26 S. H.
Edwin Sherwood Stowell Sunderland	*Middlebury*	56 Pleasant St.
Harold Stuart Tuck	*Quincy, Mass.*	D. K. E. House
Robert Royal Twitchell	*Bethel*	18 P. H.

SOPHOMORES—Class of 1912

Philip Sheridan Andrus	*Enosburg Falls*	3 Willard St.
Millard Fillmore Blanchard	*Rutland*	9 P. H.
Charles Wright Bundy	*Nashua, N. H.*	D. K. E. House

Robert Bates Currier	*Sherburne*	54 High St.
William Christie Duncan	*Middlebury*	8 High St.
Silas Cook Goddard	*Brandon*	11 S. H.
Marcus Franklin Gorham	*West Rutland*	5 South St.
Carl Diedreich Grupe	*Willsboro, N. Y.*	15 P. H.
John Warren Hamilton	*Brattleboro*	D. K. E. House
Arthur Webster Harris	*Middlebury*	44 N. Pleasant St.
Ralph Warner Hedges	*Northfield*	28 S. H.
Philip Evans Kidder	*Brookside*	2 S. H.
Arthur Burt King	*Westhampton Beach, N. Y.*	29 S. H.
John Kopke	*Brooklyn, N. Y.*	D. K. E. House
Michael Joseph Lahiff	*Adams, Mass.*	Chi Psi Lodge
Roger Kilbourne Lane	*Bristol, Conn.*	30 S. H.
Willys Merritt Monroe	*Cos Cob, Conn.*	32 S. H.
Lewis Chester Morrison	*Boston, Mass.*	19 S. H.
Ai Boynton Nevling	*Clearfield, Pa.*	D. K. E. House
Richard Sargent O'Connell	*Middlebury*	Sargent House
Edward Lynch O'Neill	*Portland, Maine*	Chi Psi Lodge
Edward Joseph Ryan	*Lee, Mass.*	3 S. H.
Brooks Frederick Smith	*Ludlow*	17 P. H.
Benjamin Sutton Stewart	*Middlebury*	16 Court St.
Joseph Milton Stillson	*New Preston, Conn.*	12 P. H.
George Goldthwaite Taylor	*Granby, Mass.*	Chi Psi Lodge
Hugh Olin Thayer	*West Brattleboro*	23 S. H.
Arthur Charles Thomas	*Hill View, N. Y.*	23 S. H.
Earle Thurman Tracey	*Nashua, N. H.*	Chi Psi Lodge
Wayland Flint Walch	*Bedford, N. H.*	11 P. H.
Royal Alexander Wray	*New York, N. Y.*	Weybridge St.

FRESHMEN—Class of 1913

John Comstock Agnew	*Port Henry, N. Y.*	1 S. H.
John Alanson Arnold	*St. Albans*	8 South St.
Dale Simpson Atwood	*St. Johnsbury*	5 S. H.
Burnham Albert Bibens	*Chester Depot*	12 S. H.
Edwin Lawrence Bigelow	*Stowe*	13 S. H.
George Lester Brayton	*Hartford, N. Y.*	13 P. H.
LeRoy Carrier Brown	*North Westchester, Conn.*	15 S. H.
Lacy Wheaton Bump	*Potsdam, N. Y.*	79 Main St.
Edgar Alonzo Carrier, Jr.	*Colchester, Conn.*	15 S. H.
William Wallace Chalmers	*Fitchburg, Mass.*	1 S. H.

Ralph Bowker Corkran	*Middlebury*	22 Seminary St.
Theron Lee Culver	*Royalton*	13 S. H.
William Herbert Danbrook	*New Haven*	12 S. H.
Walter Emil Dancink	*Amherst, Mass.*	26 S. H.
Wilfred Edward Davison	*Lower Cabot*	19 S. H.
Marvin James Dodd	*East Orange, N. J.*	9 S. H.
John Edmund Downing, Jr.	*East Port Chester, Conn.*	17 S. H.
Rolland John Ellsbury	*Willsboro, N. Y.*	15 P. H.
William John English	*Northfield*	17 S. H.
George Sherburne Fowler	*Pembroke, N. H.*	16 S. H.
William Eben Greenleaf	*Hinesburg*	24 S. H.
William Jackson Hagar	*Plattsburg, N. Y.*	6 S. H.
Russell Warren Hallock	*Speonk, Long Island*	27 S. H.
Dane Dutton Jackson	*Middlebury*	16 South St.
Samuel Edward James	*Weybridge*	R. F. D. No. 1
Bernard Arthur Leonard	*Wallingford*	7 S. H.
Walter Bernard McGuirk	*East Wallingford*	11 S. H.
William Kenedy MacMurtry	*Cornwall*	R. F. D. No. 2
Henry Joseph Merchand	*West Rutland*	3 Seminary St.
Lester Leon Nichols	*Peterboro, N. H.*	13 P. H.
George Edwin Parker	*Barre*	16 S. H.
William Francis Pollard, Jr.	*Riverside, Mass.*	31 S. H.
Hobart Bennett Potter, Jr.	*Newark, N. J.*	32 S. H.
Clinton Seymour Reynolds	*Pittsfield, Mass.*	7 P. H.
Marshall Jewell Root	*Providence, R. I.*	2 S. H.
Hiram Spencer Sessions	*West Rutland*	6 S. H.
Charles Burton Sherman	*Tunbridge*	24 S. H.
Charles Leo Smiddy	*New London, Conn.*	28 S. H.
Hendrick Woodruff Van Ness	*Greenwich, N. Y.*	9 P. H.
Roy Harold Walch	*Hudson, N. H.*	11 P. H.
Ralph Hall Waldo	*New York, N. Y.*	30 S. H.
Edward Chauncy Walker	*Richmond*	14 S. H.
Dwight Loomis Wells	*Granby*	5 S. H.
Edgar Jolls Wiley	*Ticonderoga, N. Y.*	10 S. H.
Franklin Grandey Williams	*Bridport*	14 S. H.
Harry Oliver Williams	*Rutland*	55 Pleasant St.
Frederick Allan Würtzbach	*Lee, Mass.*	3 S. H.

THE WOMEN'S COLLEGE

In Connection with Middlebury College

Miss Rhoda M. White, Ph.D., Dean

In 1883 Middlebury College opened its doors to women, and offered to them the same courses and privileges afforded to men. In 1902, a charter was granted for an affiliated College for Women, and steps have been taken toward two co-ordinate institutions, one for men and one for women, as fast as resources have allowed. It is believed that both men and women are better for the distinct social life of a separate College, but that the greater economy in administration and instruction when the education of both sexes is conducted under the same corporate management and by the same Faculty justifies affiliated institutions in the same location.

The President and Fellows of Middlebury College exercise full supervision and control of the Women's College. They are authorized to receive gifts of money for scholarships and professorships for the benefit of women students, for buildings for women, and for the general purposes of the Women's College. Bequests, legacies, and gifts for the education of women in connection with Middlebury College, like those intended for any other department of the College, should be made payable to "The President and Fellows of Middlebury College."

Women in Middlebury are taught by the same Faculty as men, and enjoy precisely the same privileges in the Library and Laboratories. All studies of the Classical and Pedagogical Courses are open to

them, with the same freedom of election, and they have equal opportunities in the Department of Pedagogy established by the State.

By the generous gift of $30,000 from Mr. A. Barton Hepburn, of the Class of 1871, received during the summer of 1908, provision was made for a Dean for the Women's College. A woman Professor has been secured for this position, who has in charge all matters of discipline and personal control of the women of the College, subject to the direction of the President.

It is proposed to erect a dormitory for women during the current year with a portion of the D. K. Pearsons Fund of $100,000, now in hand. A limited number of women can secure accommodations at Battell Cottage, conducted by the College, and boarding places for women, approved by the College, and under suitable regulations, are also obtained in the homes of the village, at a cost of from $4 to $6 per week for room and board. The usual price is $5, but by co-operative housekeeping a few women reduce the cost to less than $4.

The requirements for admission to the Women's College are the same as those for men in the Classical and Pedagogical Courses. Women are accorded the degree of A.B. upon graduation and may attain the degree of A.M. Separate chapel exercises are maintained for them, and separate recitations in most of the required work of the first two years. Correspondence connected with the Women's College should be addressed to the Dean of Women.

SENIORS—Class of 1910

Edith Sarah Atwood	*Woodstock*	75 Main St.
Maude Edith Avery	*Middlebury*	125 Main St.
Myra Anna Bagley	*Rutland*	9 Court St.
Anna Louise Butler	*Proctor*	20 Court St.
Gretta Ann Cater	*Catskill, N. Y.*	117 Main St.
Helen Stevens Clark	*West Rutland*	Battell Cottage
Stella Mildred Cook	*Shoreham*	Battell Cottage
Georgia Abigail Gardner	*Middlebury*	22 Main St.
Edith Nellie Grout	*East Arlington*	15 S. Pleasant St.
Angeline May Holden	*Chester Depot*	8 High St.
Rena Richmond Huntley	*Middlebury*	117 Main St.
Martha Eleanor Meibert	*Canal Fulton, Ohio*	34 Pleasant St.
Goldia Mary Monroe	*Middlebury*	22 Main St.
Gwendoline Morris	*Fair Haven*	27 Washington St.
Alice Florence Raymond	*Leominster, Mass.*	34 Pleasant St.
Esther Helena Shea	*Middlebury*	11 High St.
Ada Frances Wells	*Leominster, Mass.*	Battell Cottage
Angeline Mary Wilcox	*Greenfield, Mass.*	22 Main St.

JUNIORS—Class of 1911

Elizabeth Tupper Adams	*Ferrisburg*	18 High St.
Grace Lillian Allen	*Ferrisburg*	Battell Cottage
Gertrude Brodie	*Hardwick*	15 S. Pleasant St.
Veva Elsie Bullard	*Vergennes*	37 N. Pleasant St.
Margery Burditt	*Rutland*	23 Weybridge St.
Ruth Ida Burnham	*Brandon*	36 College St.
Alice Eleanor Casey	*Bristol*	47 Pleasant St.
Elizabeth Caswell	*Middlebury*	45 Seminary St.
Isabelle Caroline Darrow	*Middlebury*	3 Weybridge St.
Emma Gibbs Easton	*Middlebury*	69 Pleasant St.
Mary Kathleen Edmunds	*Bristol*	37 N. Pleasant St.
Kathleen Maria Foote	*Cornwall*	69 Pleasant St.
Margaret French	*Swanton*	Battell Cottage
Marion Adelaide Frizelle	*Brooklyn, N. Y.*	Battell Cottage
Eliza Hester Hart	*Bennington*	31 Court St.
Alice Hemenway	*Bridport*	15 Elm St.
Myrle Blanche Hill	*Starksboro*	16 College St.
Louise Johnson	*Middlebury*	6 South St.

Mabel Martin	*Middlebury*	60 Pleasant St.
Marion Martin	*Poultney*	28 Weybridge St.
Jennie Blanche McLellan	*Middlebury*	31 Seminary St.
Marion Edith Roys	*Middlebury*	23 Weybridge St.
Elizabeth Ryder	*Middlebury*	38 South St.
Margaret Farnsworth Sheldon	*Middlebury*	91 Main St.
Eunice Woodward Smith	*Worcester, Mass.*	Battell Cottage
Carmen Renda Walker	*Ludlow*	15 S. Pleasant St.
Cora Elizabeth Welch	*Bethel*	17 College St.
Sara Dickinson Whitney	*Bennington*	15 S. Pleasant St.
Helen Gale Wood	*Hyde Park*	15 S. Pleasant St.

SOPHOMORES—Class of 1912

Mabel Lois Agnew	*Port Henry, N. Y.*	117 Main St.
Alice Weed Barnum	*Jericho Center*	8 High St.
Edith Marjorie Bates	*Rutland*	10 Weybridge St.
Blanche Belle Bostwick	*Jericho Center*	8 High St.
Mary Elizabeth Bresnehan	*Proctor*	36 College St.
Eleanora Sanborn Chesley	*Epsom, N. H.*	Battell Cottage
Margaret Helen Croft	*Waterbury, Conn.*	23 Weybridge St.
Helen Lillian Crosby	*Lawrence, Mass.*	3 Weybridge St.
Kathleen Veronica Driscoll	*Ballston Spa, N. Y.*	23 Seminary St.
Lou Mae Dutton	*Montpelier*	65 College St.
Marguerite Adah Ellison	*Farmington, N. H.*	36 College St.
Genevieve Isabelle Elmer	*Middlebury*	49 Seminary St.
Clara Thrall Engel	*Rutland*	15 S. Pleasant St.
Louise Genevieve Fellows	*Wells River*	Battell Cottage
Elma Pruda Harwood	*Round Lake, N. Y.*	Battell Cottage
Thelma Gertrude Havens	*Chester Depot*	15 S. Pleasant St.
Ada Belle Hill	*Lake George, N. Y.*	6 South St.
Ruth Hill	*Wallingford*	23 Weybridge St.
Lucy Agnes Holden	*Pittsford*	125 Main St.
Sarah Hila Lewis	*S. Royalton*	13 Elm St.
Katherine Mae McCormack	*Bethel*	11 College St.
Helen Susan Merrill	*Lawrence, Mass.*	10 College St.
Louise Frances Monroe	*Cos Cob, Conn.*	8 High St.
Gertrude Martha Murdock	*Port Henry, N. Y.*	10 Weybridge St.
Laura Lucinda Newell	*Alstead, N. H.*	23 Weybridge St.
Minette Carrier Norton	*N. Westchester, Conn.*	23 Seminary St.
Hazel Gertrude O'Connell	*Middlebury*	Sargent House

Grace Lavinia Pennock	*Grafton*	3 Weybridge St.
Ruth Hamblin Richner	*Portland, Maine*	Battell Cottage
Ethel Schoonmaker	*Mansfield, Mass.*	Battell Cottage
Lena Dunbar Sears	*West Hawley, Mass.*	6 College St.
Vivia Irene Stone	*Springfield*	Battell Cottage
May Irene Thayer	*West Brattleboro*	Logan House
Dorothy Morton Tuttle	*Manchester, N. H.*	15 S. Pleasant St.
Jessie Marion Warner	*Brandon*	18 Seymour St.
Ruby Cordelia Watkins	*West Millbury, Mass.*	47 Washington St.
Lucy Amelia Willard	*Vergennes*	14 College St.
Grace Hazel Wright	*Vergennes*	2 Pleasant St.

FRESHMEN—Class of 1913

Fanny Gertrude Alden	*Proctor*	125 Main St.
Mary Townsend Archibald	*Rutland*	9 Elm St.
Laurie Romola Besiegel	*Dalton, Mass.*	36 College St.
Esther Alice Boyce	*North Andover, Mass.*	23 Weybridge St.
Ruth Mary Brookins	*Middlebury*	47 Pleasant St.
Sara Davis Brown	*St. Albans*	41 South St.
Ruth Bingham Buck	*Waterville, Conn.*	Battell Cottage
Faye Belle Butterfield	*Middlebury*	30 South St.
Caroline Elizabeth Buttolph	*Middlebury*	111 Main St.
Julia Clifford Carter	*Vergennes*	16 College St.
Florence Ardelle Clark	*Brookville, Mass.*	Battell Cottage
Wilma Caroline Cory	*Saxton's River*	23 Weybridge St.
Elizabeth Honoria Creegan	*Fishkill-on-Hudson, N. Y.*	18 Seymour St.
Bessie Mildred Cudworth	*S. Ashburnham, Mass.*	36 College St.
Edith Darrow	*Middlebury*	3 Weybridge St.
Grace Maria Ellis	*Worcester, Mass.*	36 College St.
Edna Josephine Ellsworth	*Peterboro, N. H.*	36 College St.
Emma Frost	*St. Johnsbury*	28 Weybridge St.
Eleanor Margaret Galleher	*Windsor*	36 College St.
Helen Atarah Harriman	*North Adams, Mass.*	55 Seminary St.
Jennie Alice Harris	*Middlebury*	44 Pleasant St.
Eleanor Whitney Hatch	*St. Albans*	15 S. Pleasant St.
Sara Jane Hayes	*Milton, N. H.*	36 College St.
Bertha Annette Holden	*Pittsford*	125 Main St.
Alice Adella Holmes	*Proctor*	36 College St.
Eva Adelia Holt	*West Rutland*	Battell Cottage
Phyllis Edwards Hopkins	*Belchertown, Mass.*	117 Main St.
Kathleen Amelia Hunt	*Middlebury*	R. F. D. No. 4

Mary Ida Johnson	*Wallingford*	41 South St.
Ethel Johnston	*North Hampton, N. H.*	18 Seymour St.
Emma Elizabeth Kingsley	*Middlebury*	11 Elm St.
Faith Blackmer Linsley	*Middlebury*	Battell Cottage
Alice Mary Morrill	*North Troy*	34 Seminary St.
Alice Rachel Peaslee	*Contoocook, N. H.*	Battell Cottage
Annie Estelle Perkins	*Berwick, Maine*	6 Franklin St.
Gladys Viola Rand	*Johnson*	34 Seminary St.
Mary Colton Reynolds	*Fair Haven*	16 Court St.
Annah Belle Sheldon	*West Salisbury*	6 South St.
Charlotte Leavitt Slocum	*Amherst, Mass.*	6 Franklin St.
Barbara Harriet Smith	*Middlebury*	6 South St.
Mildred Adeline Snow	*Bellows Falls*	23 Weybridge St.
Ruby May Vosburgh	*Middlebury*	50 Court St.
Edna Hinman Wilder	*New Haven*	22 Main St.
Frances Eunice Williams	*Central Bridge, N. Y.*	117 Main St.
Dora Mabel Willson	*Granby*	18 Seymour St.
Stella Alice Wooster	*Middlebury*	8 Elm St.

STUDENTS IN ATTENDANCE AT THE SUMMER SESSION

Myrtle E. Andrews (Oberlin College), Student	*Wallingford*
Myra Anna Bagley, Student	*Rutland*
Elsie M. Bähler	*East Orange, N. J.*
Julia A. Barry, Teacher	*Middlebury*
Carson Henry Beane, A.B. (Middlebury), Principal, High School	*West Rutland*
Ethel Billings, Teacher	*Ripton*
Kenneth Bingham	*New York, N. Y.*
Wayne Cook Bosworth, Student	*Bristol*
Genevieve M. Boulia (Castleton Normal School), Teacher	*Orwell*
Emma F. Bump, Teacher	*Salisbury*
Mary Burns, Teacher	*Orwell*
Mary R. Butterfield, Teacher	*North Troy*
Grace Smith Buttolph, A.B. (Middlebury), Assistant, Black River Academy	*Ludlow*
Agnes Calhoun, Teacher	*Middlebury*
May Calhoun (Plattsburg Normal School), Teacher	*Middlebury*
Della M. Carpenter (Castleton Normal School), Teacher, State School	*Vergennes*

Elizabeth Caswell, Student — *Middlebury*
Marie Louise Chaffee, A.B. (Middlebury), Assistant, High School — *Northfield*
Will Guy Colby, A.B. (Dartmouth), Principal, High School — *Groveland, Mass.*
Rev. David H. Corkran, Clergyman — *Middlebury*
Edward Corwin — *East Orange, N. J.*
Blanche Coursey, Teacher — *New Haven*
Theodora Winona Crane, A.B. (Wells), Assistant, High School — *Ballston Spa, N. Y.*
Thomas R. Creede, Jr. — *East Orange, N. J.*
Carrie Emeroy Damon, A.B. (Middlebury), Assistant, High School — *Orleans, Mass.*
Effie N. Daunis — *Middlebury*
Mabel Delano (Castleton Normal School), Teacher — *Shoreham*
May Isabelle Delevan, Student — *Pittsfield, Mass.*
Maysel I. Doolin, Teacher — *Middlebury*
Arthur William Eddy, A.B. (Middlebury), District Superintendent of Schools — *Bristol*
Ruth H. Eggleston, Teacher — *Windsor*
Fanny Maria Gates, A.B. (Middlebury) — *Middlebury*
Max L. Green (Johnson Normal School), Teacher — *Lincoln*
Flora L. Griswold, Teacher — *Orwell*
Edith Nellie Grout, Student — *East Arlington*
Genevieve I. Halnon, Teacher — *Middlebury*
John Warren Hamilton, Student — *Brattleboro*
Ruth Hammond, Teacher — *Springfield*
Marguerite Harwood, A.B. (Middlebury), A.M. ibid., Assistant, High School — *Swanton*
Ralph Warner Hedges, Student — *Northfield*
Susie Wilder Hesselgrave, A. B. (Middlebury) — *Chatham, N. J.*
Susie Carrie Holmes, A.B. (Middlebury), Assistant, High School — *Richford*
Maud Stevens Howard — *Middlebury*
Sadie E. Ilsley (Randolph Normal School), Teacher — *Thetford*
Bertha Keese (Castleton Normal School), Teacher — *Middlebury*
Harriet Kellogg, Teacher — *Shoreham*
Charlotte M. Kennedy, Teacher — *St. Albans*
Rollo Alvord Kilburn, Student — *Pittsfield, Mass.*
Charles R. King, Teacher — *Newbury*
Harold Knowles, Student (Cornell) — *East Orange, N. J.*
Euretta Leonard, Teacher — *Shoreham*
Faith B. Linsley, Student — *Middlebury*

Alice Lottridge — *East Orange, N. J.*
Patrick H. Lynch, Assistant, High School — *Brandon*
Ida L. May, Teacher — *Luzerne, N. Y.*
Anna B. Mehuron, Teacher, State School — *Vergennes*
Effie M. Moore, Teacher — *Island Pond*
Mae Sadie Morrill, Teacher — *Northfield*
Lottie Munsell, A.B. (Ripon), Assistant, High School — *Hardwick*
Gertrude Parmalee, Teacher — *Bristol*
Anne May Pierce, Teacher, State Normal School — *Castleton*
Melbourne Jabez Pond, Student — *East Berkshire*
Miriam Frances Remele — *Medford, Mass.*
Maud Reynolds — *Middlebury*
James Leigh Richmond, A.B., Teacher, Summit, N. J. — *Middlebury*
A. Ethel Ryder, Teacher — *Brandon*
Rosalie S. Sarson, Teacher — *Newark, N. J.*
Frank E. Sawyer, Principal, High School — *Vergennes*
Harold Allan Severy, A.B. (Middlebury), Principal, High School — *Weston*
Myrtle H. Severy, Teacher — *Brandon*
Henry Stanley Stanton, Student (Tilton Seminary) — *New York, N. Y.*
Ray Adams Stevens, A.B. (Middlebury), Assistant, High School — *Lincoln, Ill.*
Margaret Stuart, Teacher — *Pawlet*
Linwood Taft, District Superintendent of Schools — *Woodstock*
Maud Mary Tucker, A.B. (Middlebury), Principal, High School — *Jericho Center*
Stella C. Turner, Teacher — *Middlebury*
Henry Raymond Vaughan, A.B. (Middlebury), Assistant, High School — *Findlay, Ohio*
John Andrew Viele, A.B. (Middlebury), Principal, High School — *Wilmington*
Ruby May Vosburgh, Student — *Middlebury*
Florence Duncan Weld, A.B. (Middlebury), Teacher — *Watertown, Conn.*
Mildred Abbie Weld, A.B. (Middlebury), Assistant, High School — *Mystic, Conn.*
Delana E. Willard (Castleton Normal School), Teacher — *Vergennes*
Margaret Maud Whitney, A.B. (Middlebury), Assistant, High School — *Granby, Mass.*
Carlotta Williams, Teacher — *Plainfield*
Royal Alexander Wray, Student — *New York, N. Y.*
Wilfried M. Wilton, Principal, High School — *Waitsfield*

SUMMARY

	MEN	WOMEN	TOTAL
Graduate students	7	5	12
Seniors	21	18	39
Juniors	27	29	56
Sophomores	30	38	68
Freshmen	47	46	93
	132	136	268
Summer Session	25	61	86
Total			354
Counted twice			20
Net total			334

GEOGRAPHICAL DISTRIBUTION

(Undergraduates only)

	MEN	WOMEN	TOTAL
Vermont	65	90	155
New York	26	9	35
Massachusetts	12	17	29
New Hampshire	7	8	15
Connecticut	9	4	13
Maine	1	2	3
New Jersey	2	0	2
Rhode Island	1	0	1
Pennsylvania	1	0	1
Ohio	0	1	1
Missouri	1	0	1
	125	131	256

CALENDAR

1909.

September 23.	*Thursday*, 8:45 a.m.—First Semester Begins.
November 24 (noon) to 29 (noon)	Thanksgiving Recess.
December 22 to January 4, 1910.	Christmas Recess.

1910.

January 28.	Winter Meeting of the Corporation in New York.
February 7–11.	Mid-year Examinations.
February 11.	*Friday*—First Semester Ends.
February 14.	*Monday*—Second Semester Begins.
February 22.	Washington's Birthday.
March 25 to April 4.	Easter Recess.
May 6.	Arbor Day.
May 12 to 14.	Junior Week.
May 30.	Memorial Day.
May 31 to June 3.	*Monday* to *Friday*—Senior Examinations.
June 13–17.	*Monday* to *Friday*—Final Examinations.
June 19.	*Sunday*—Commencement Sunday. 10:45 a.m. Baccalaureate Sermon. 8:00 p.m. Anniversary of the Christian Associations.

JUNE 20. *Monday*—Class Day.
10:30 a.m. Class Day Exercises.
3:00 p.m. Meeting of the Phi Beta Kappa Society.
8:00 p.m. Parker and Merrill Prize Speaking.
8:00 p.m. Annual Meeting of the Corporation.

JUNE 21. *Tuesday*—Alumni Day.
8:00 p.m. Commencement Concert.

JUNE 22. *Wednesday*—Commencement Day.
9:00 a.m. Meeting of the Alumni in the Chapel.
10:30 a.m. Commencement Exercises.
1:00 p.m. Commencement Dinner.
7:30 to 9. President's Reception.

JULY 5 to AUGUST 12. SUMMER SESSION.

SEPTEMBER 22. *Thursday*, 8.45 a.m.—First Semester Begins.

NOVEMBER 23 (noon) to 28 (noon.) Thanksgiving Recess.

DECEMBER 23 to
JANUARY 3, 1911. Christmas Recess.

INDEX

Admission, 75–89
  To Classical Course, 21, 75–78
  To Scientific Course, 22, 75–78
  To Advanced Standing, 88–89
  To Graduate Study, 90–94
  Definition of Points, 78
Aid for Students, 105–108
Alumni, Associated, 108
Alumni Associations, 108
Appointments and Awards, 110–112
Appointments, Honorary, 96

Battell Cottage, 104
Beneficient Funds, 105–108
Bequest, Form of, 6
Biological Laboratory, 100
Biology, Department of, 30

Calendar, 126–127
Charter, The, 6–10
Chemical Laboratory, 100
Chemistry, Department of, 33–35
Commons, Hamlin, 103–104
Corporation, 11
  Committees of, 12

Degrees Conferred, 109–110
Degrees in Course, 93–94
Dormitories, 102–103
Dwight, "Travels in New England," 3–5

English, Department of, 36–39
Examinations, 94–95
Expenses, 104–105
Extra Studies, 23–24

Faculty and Officers, 13–14
Faculty, Committees of, 15
Fees for Admission to Advanced Standing, 88–89
  For Degree of Master of Arts, 93–94
  For Laboratory Work, 104
Forestry, Courses in, 30, 32
Founding of Middlebury, 3–5
French, Department of, 39–41

Geology, Department of, 41–42
German, Department of, 42–46
Greek, Department of, 46–50

Herbarium, 101
History of the College, 16–19
History, Department of, 50–53
Honors, Special, 96–97

Instruction, Courses of, 21–24
  Departments of, 30–74

Latin, Department of, 53–58
Law Schools, Arrangement with, 71–72
Legislative Action, 61, 117
Library, 98, 99
Location, 19

Master of Arts, Degree of, 93–94
Mathematics, Department of, 58–61
Museum of Natural History, 100–101

Pedagogy, Department of, 61–66
Pedagogical Course, 21, 61–66
Phi Beta Kappa Society, 96
Philosophy, Department of, 66–69
Physical Laboratory, 100

Political Science, Department of, 71–74
President, The, and Fellows, 11
Progress, Recent, 16
Prizes, 97–98

Reading Room, 99
Record of Scholarship, 96
Religious Services, 102

Saturday Courses, 94, 113
Scientific Course, 22, 75–78
Scholarships, 105–108
  State, 107–108
Sociology, Courses in, 73–74
Students, List of, 113–116; 119–122
Students, Summaries of, 125
Studies, Outline of, 25–29
Summer Session, 90–93
  Student at, 122–124

Technology, Arrangement with Schools of, 22
Tuition, 104–105

Warner Science Hall, 100
Women's College, 117–118

Y. M. C. A., 102
Y. W. C. A., 102